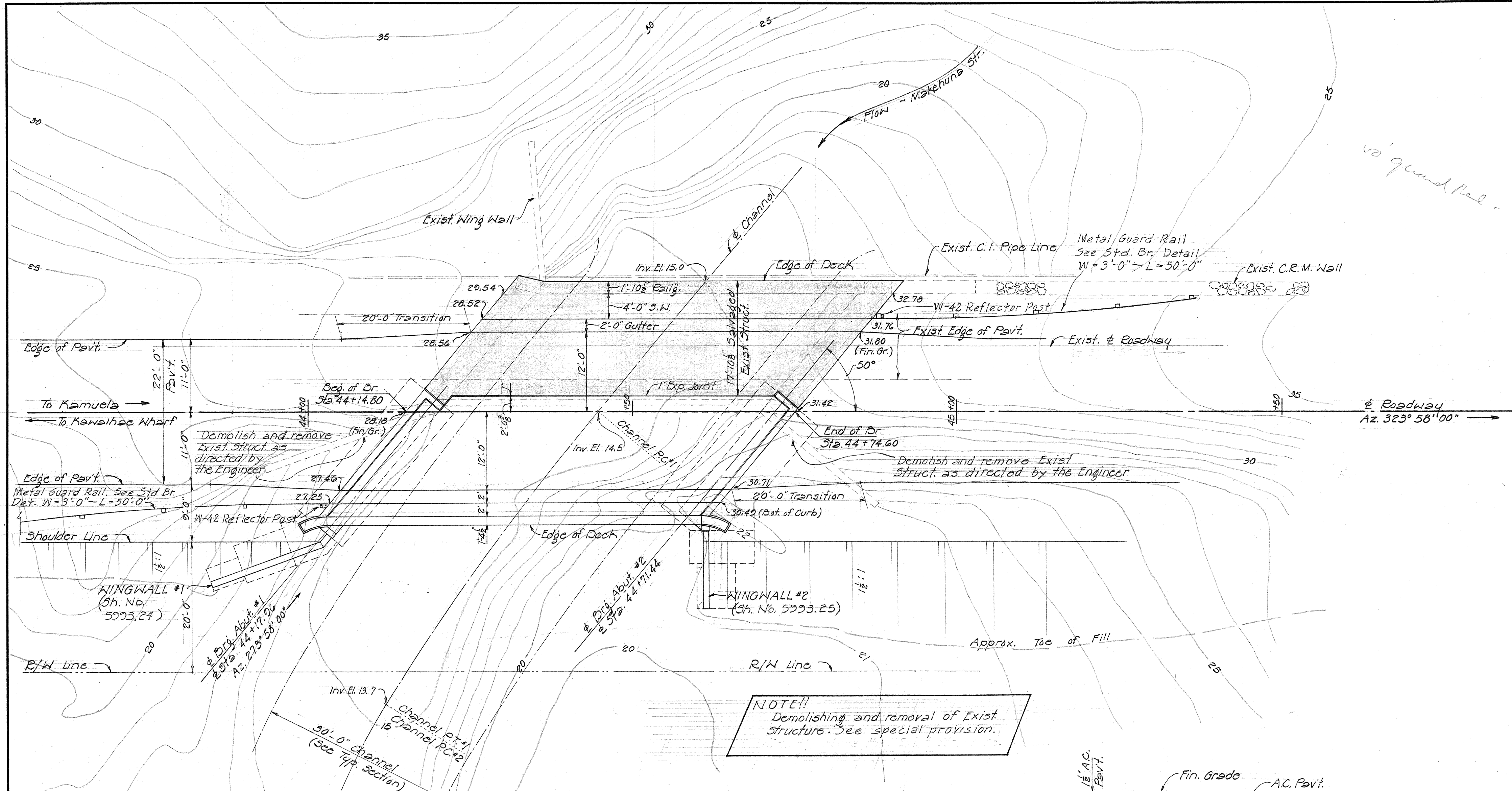
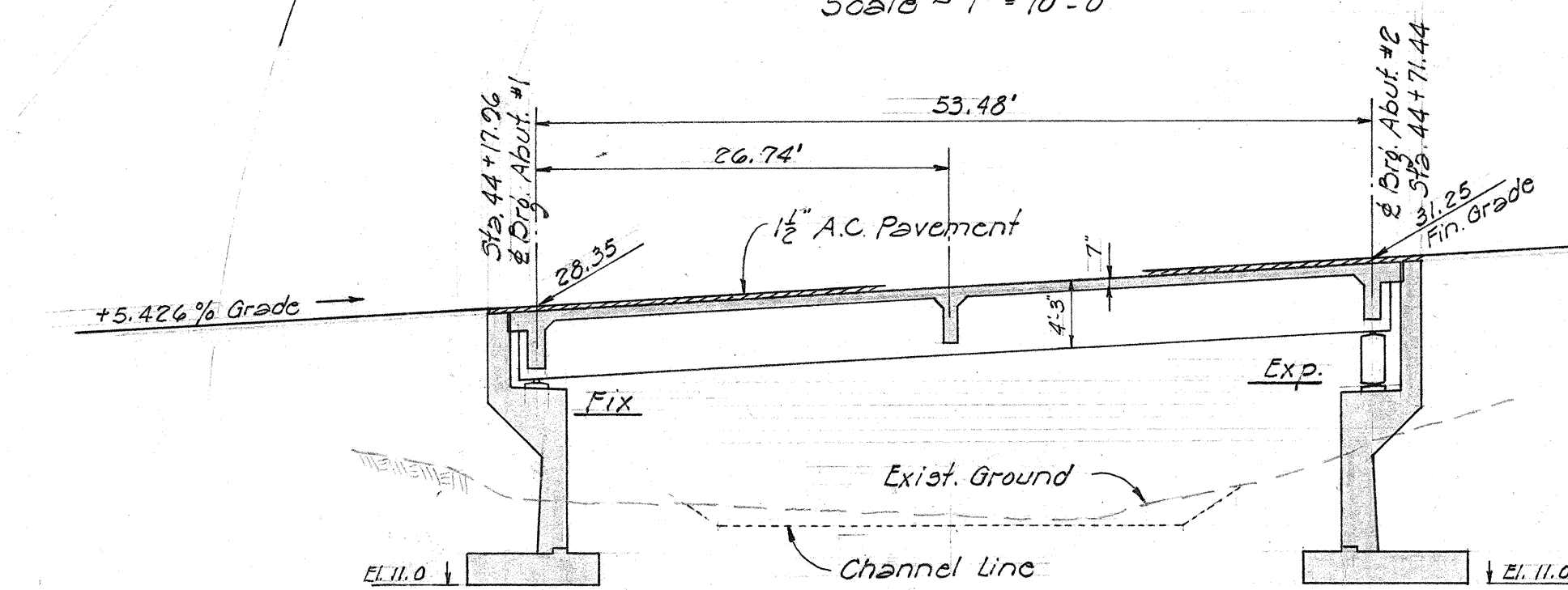


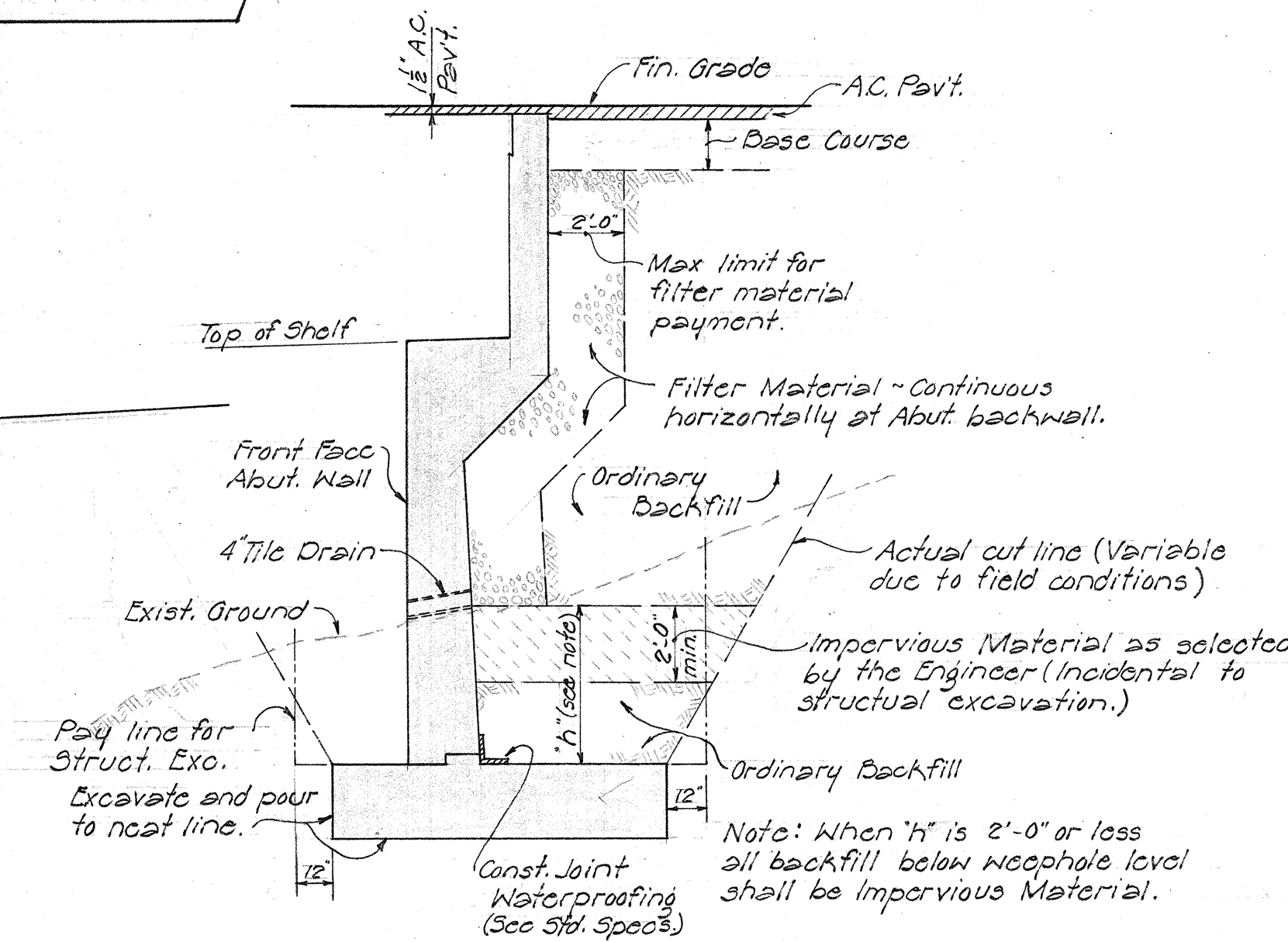
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW	5-0260(1)	1959	22	38



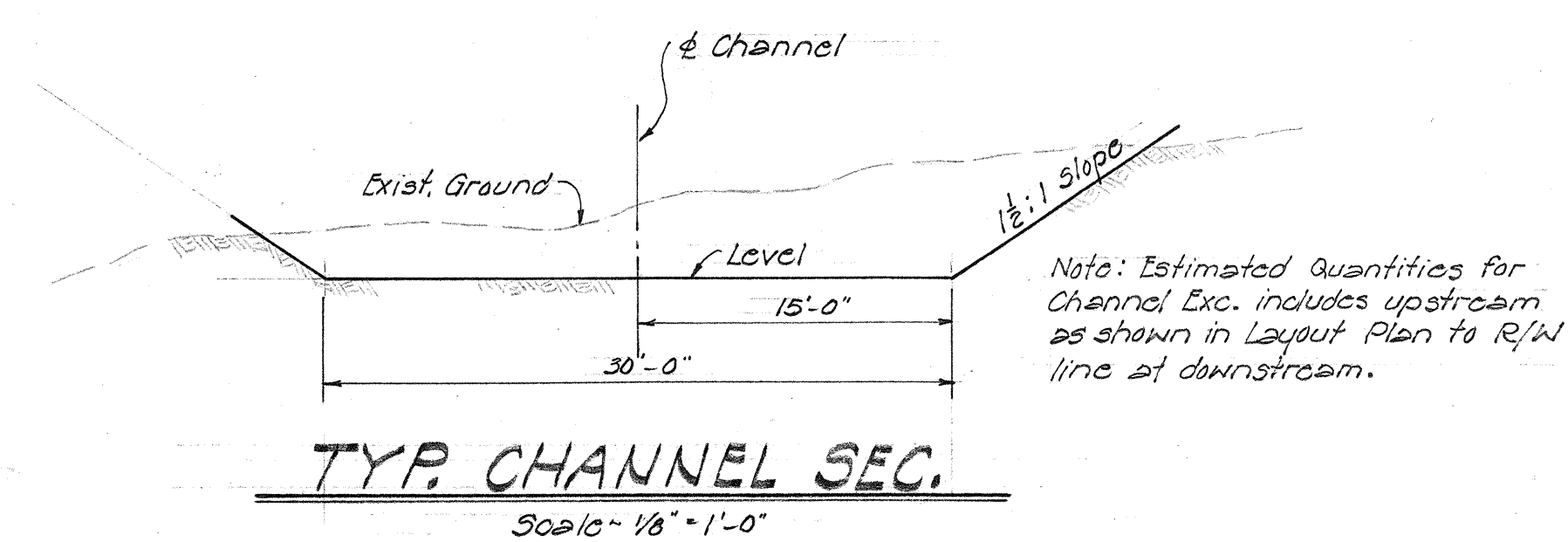
LAYOUT PLAN
Scale - 1" = 10'-0"



LONG. SECTION AT & ROADWAY
Scale - 1" = 10'-0"



TYP. BACKFILL DETAIL
No Scale



TYP. CHANNEL SEC.
Scale - 1/8" = 1'-0"

GENERAL NOTES

MATERIALS

All concrete shall be Class A-1.

ADMIXTURE

Admixture of Pozzolanth or approved equal shall be added to concrete in accordance with manufacturer's recommendations.

CONSTRUCTION METHOD

No explosives shall be used to remove portions of the existing bridge, and care shall be taken not to damage any part of the existing structure which is to be incorporated into the new structure. Any damage to such parts of the existing structure shall be repaired by the contractor under the supervision of the Engineer & at the contractor's own expense.

All backfills behind Abutments shall be complete in place before pouring concrete for the superstructure. Sidewalk, curb and railing shall not be poured until after the falsework for the span has been released.

ESTIMATED QUANTITIES

Class A-1 Conc.	=	Lump Sum (220.0 Cu. Yds.)
Reinf. Steel	=	Lump Sum (28,400.0 Lbs.)
Structural Exc.	=	217 Cu. Yds.
Channel Exc.	=	175 Cu. Yds.
Filter Material	=	58 Cu. Yds.
A.C. Pavement (Mix II)	=	14.0 Tons
Levelling Course (Mix III)	=	10.0 Tons
Tack Coat	=	40.0 Gals.

TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII
MAKEHUA STR. BRIDGE
Sta. 44+14.80 to Sta. 44+74.60
KAWAIAE RD. Proj. No. S-0260(1)
Nov. 1958

DATE	11-5-59
SURVEY PLOTTED BY	S.K.
DESIGNED BY	S.K.
DRAWN BY	S.K.
NOTE BOOK	1
QUANTITIES CHECKED BY	S.K.
CHECKED BY	S.K.
ORIGINAL PLAN	No.

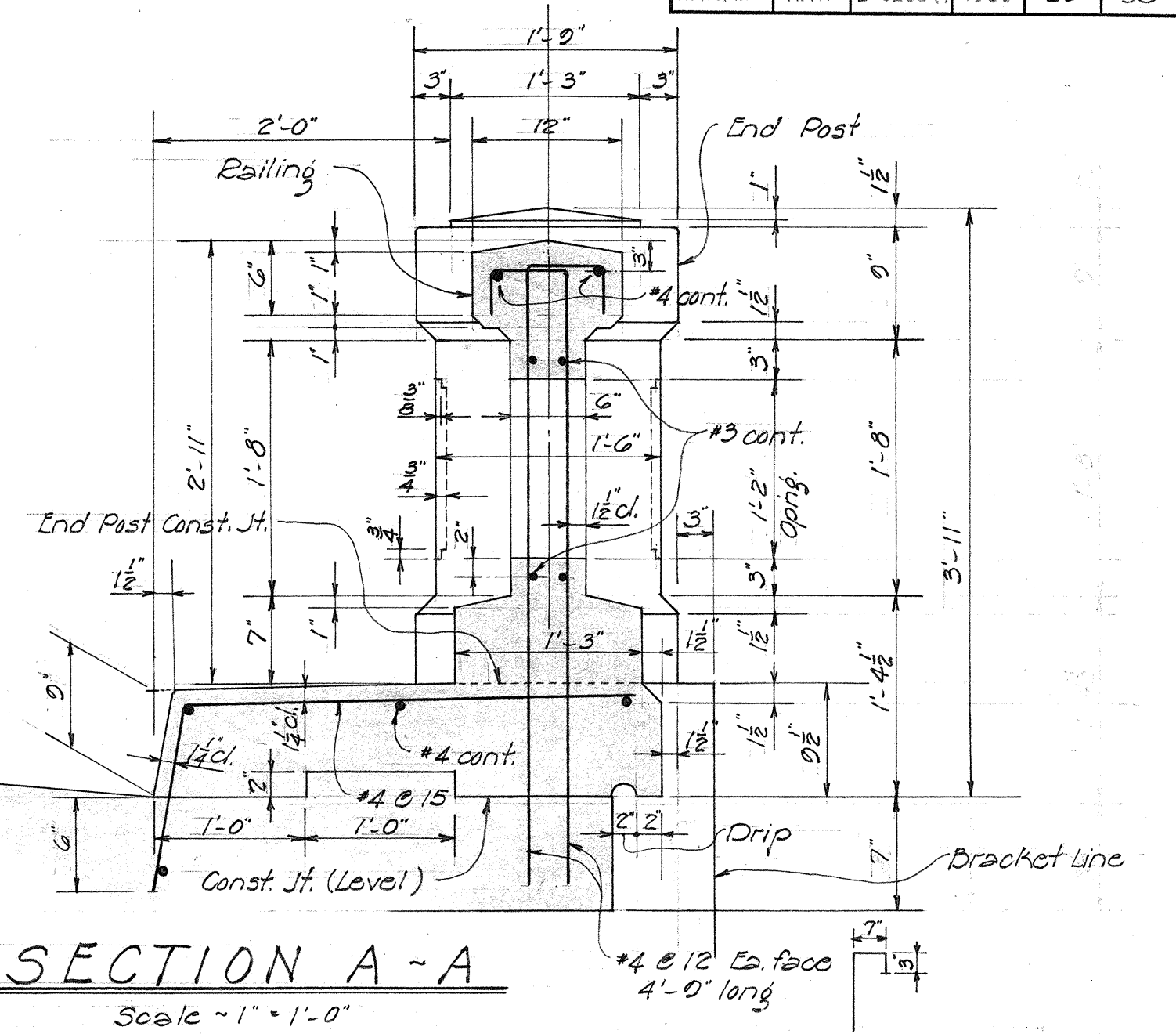
TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII

MAKEHUA STR. BRIDGE

S_{D.} 44+14.80 to S_{D.} 44+74.60

KAWAIHAE RD. Proj. No. S-0260(1)

Nov. 1958



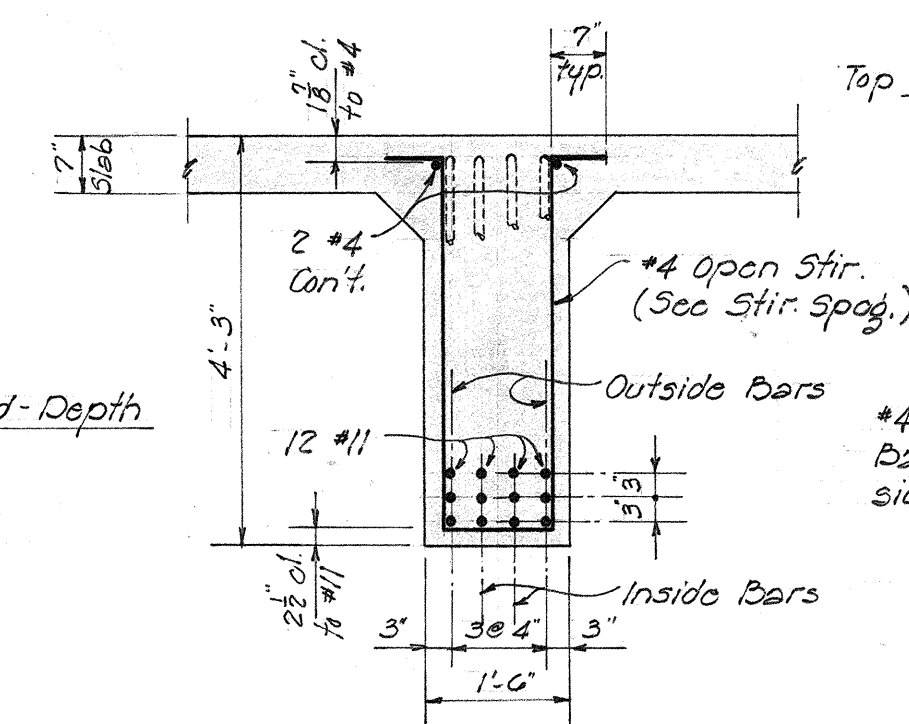
TYP. CUT LINE DET.
Scale - 1/2" = 1'-0"

NOTE:
All Stations shown are based on Exist. & Roadway.
All Elevations shown are approximate.
Exact Elev. to be determined in field.

Scale = $\frac{1}{2}'' = 1'-0''$

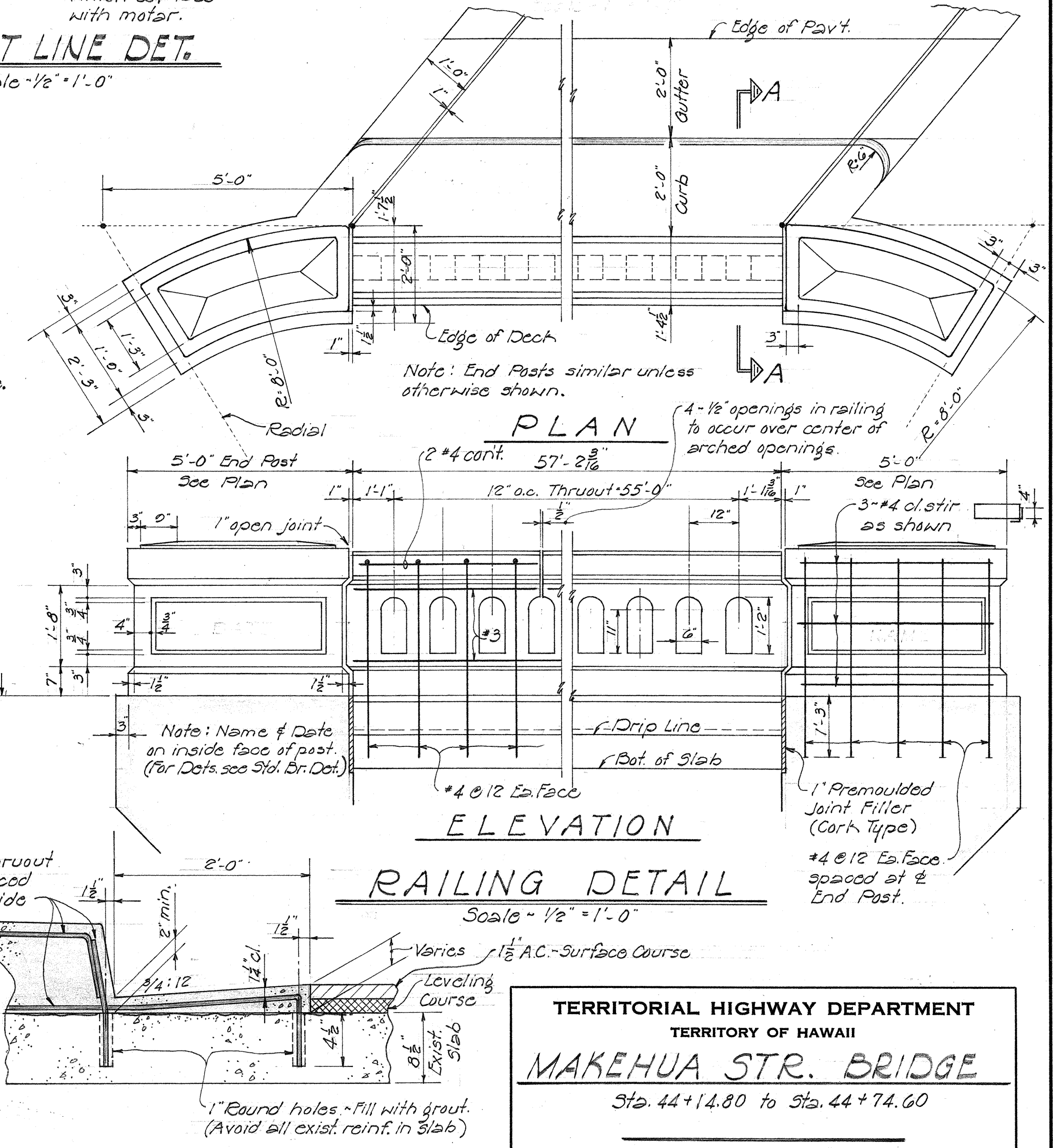
Plan view of a bridge structure showing two spans. The left span is 25'-0" long with a 28.71' F.P. Grade. The right span is 25'-0" long with a 30.68' F.P. Grade. The bridge is flanked by existing and new roadways. Dimensions include 14'-0" and 45'-0" for roadway widths, and 5'-0" for shoulder widths. Elevation points are marked at various stations along the bridge and roadways.

DETAIL SHOWING METHOD OF CHANGING
NAME & DATE ON EXIST. END POSTS



DETAIL "A"

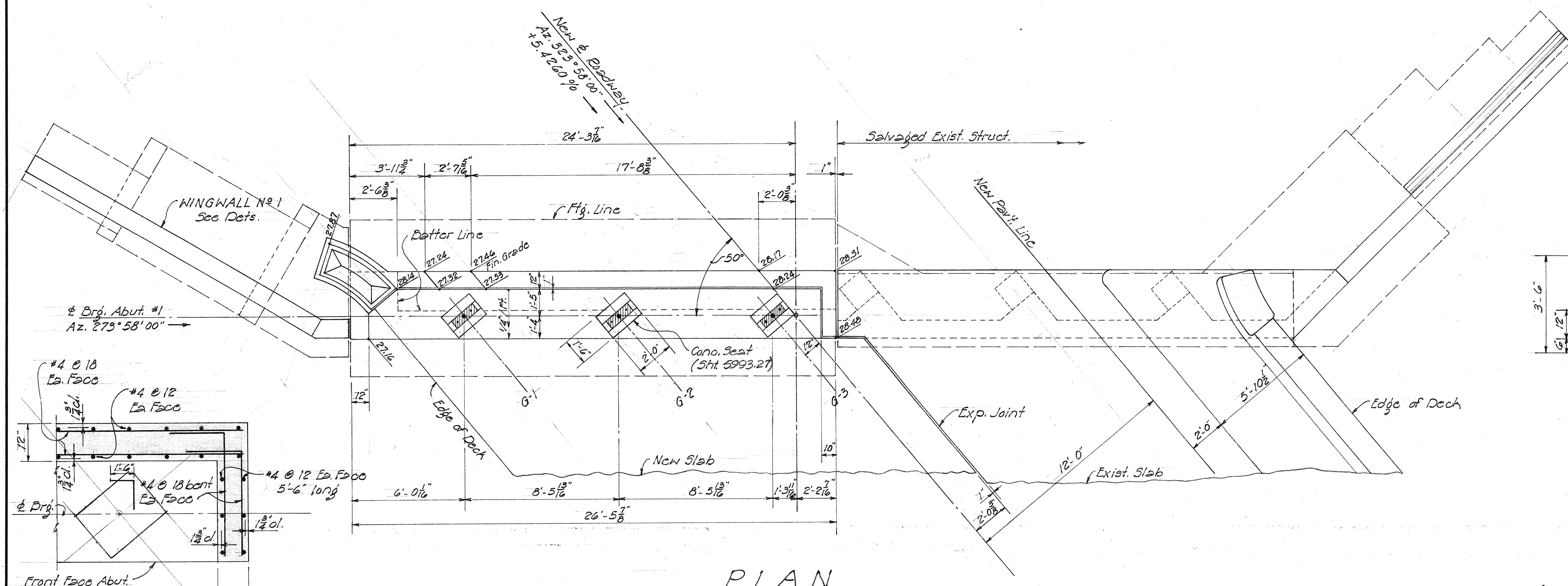
Scale ~ 1" = 1'-0"



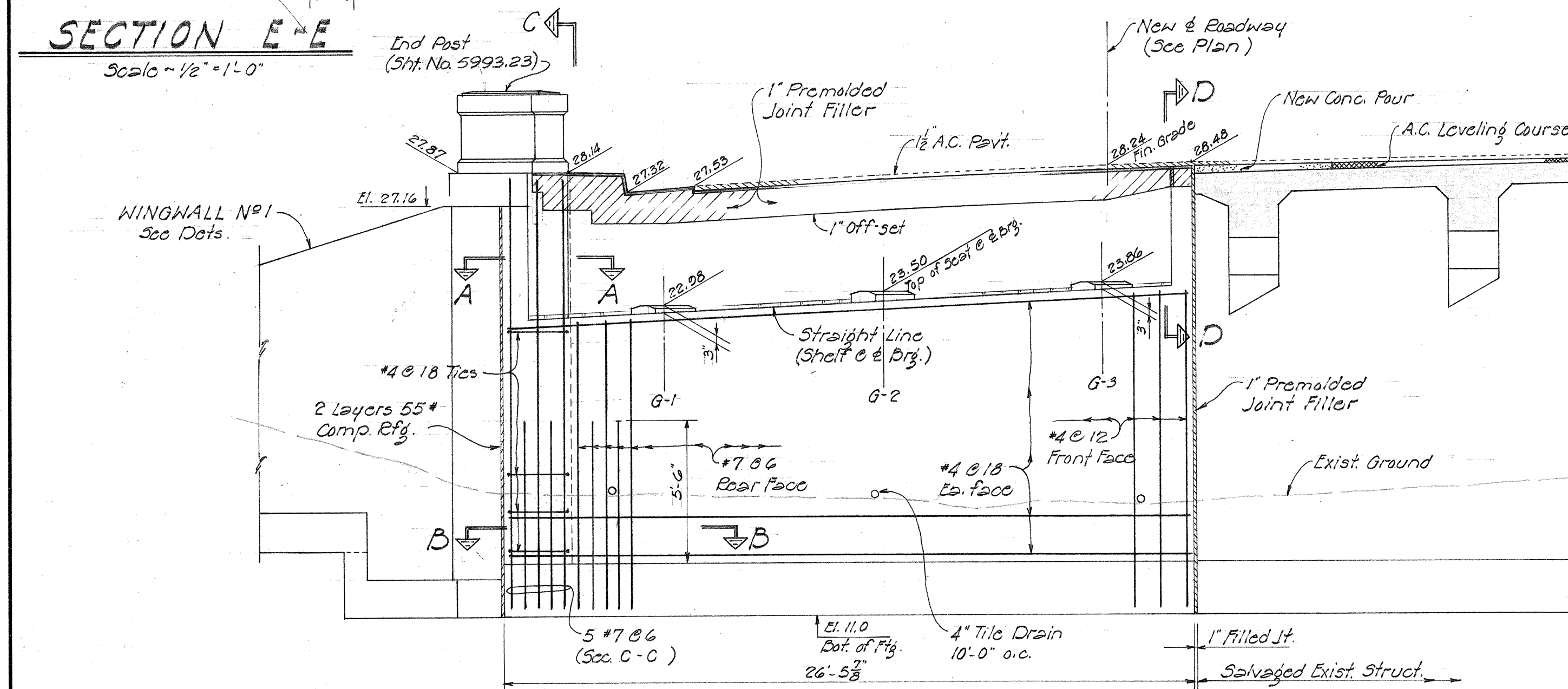
RAILING DETAIL

SHEET No. 2 OF 6 SHEETS

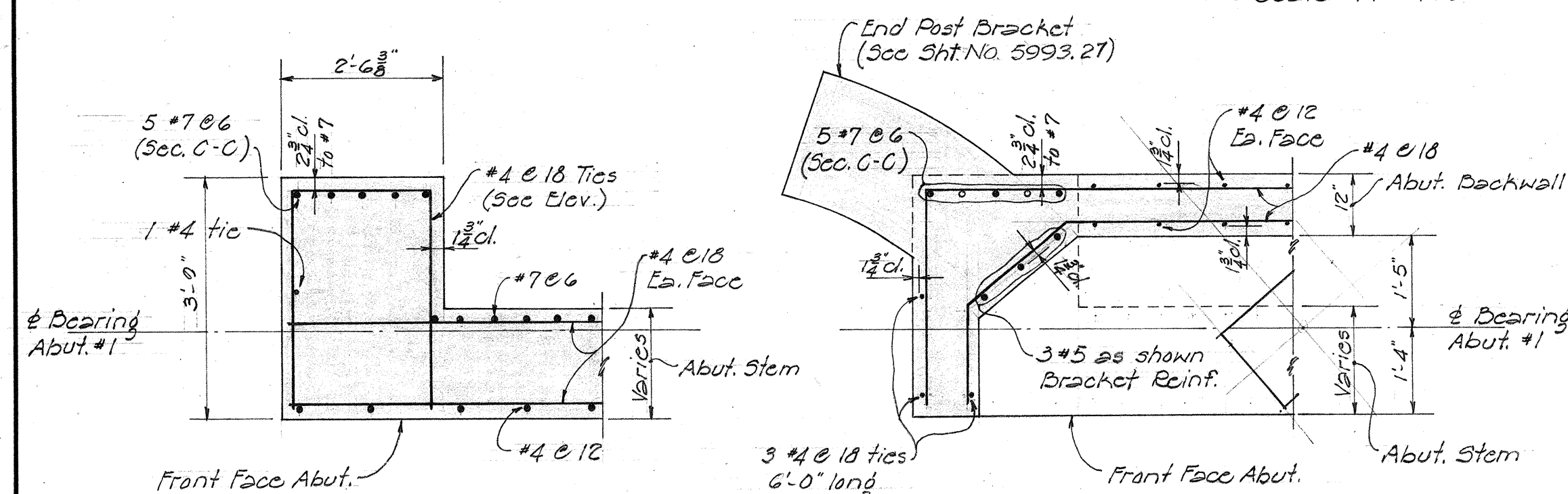
FED. ROAD DIST. No.	STATE	FED. AID PROJ. No.	FISCAL YEAR	SHEET No.	TOTAL SHEET
HAWAII	HAW	S-0260 (1)	1959	24	38



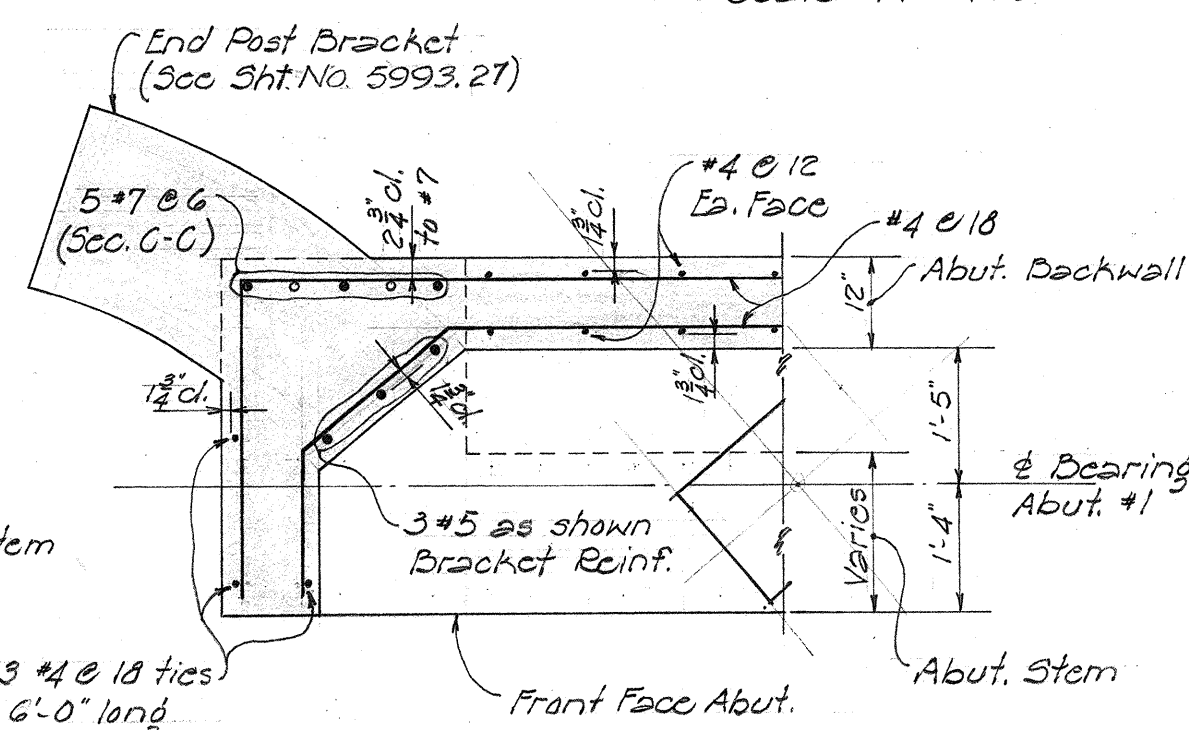
SECTION E-E
302/0 ~ 1/2" = 1'-0"



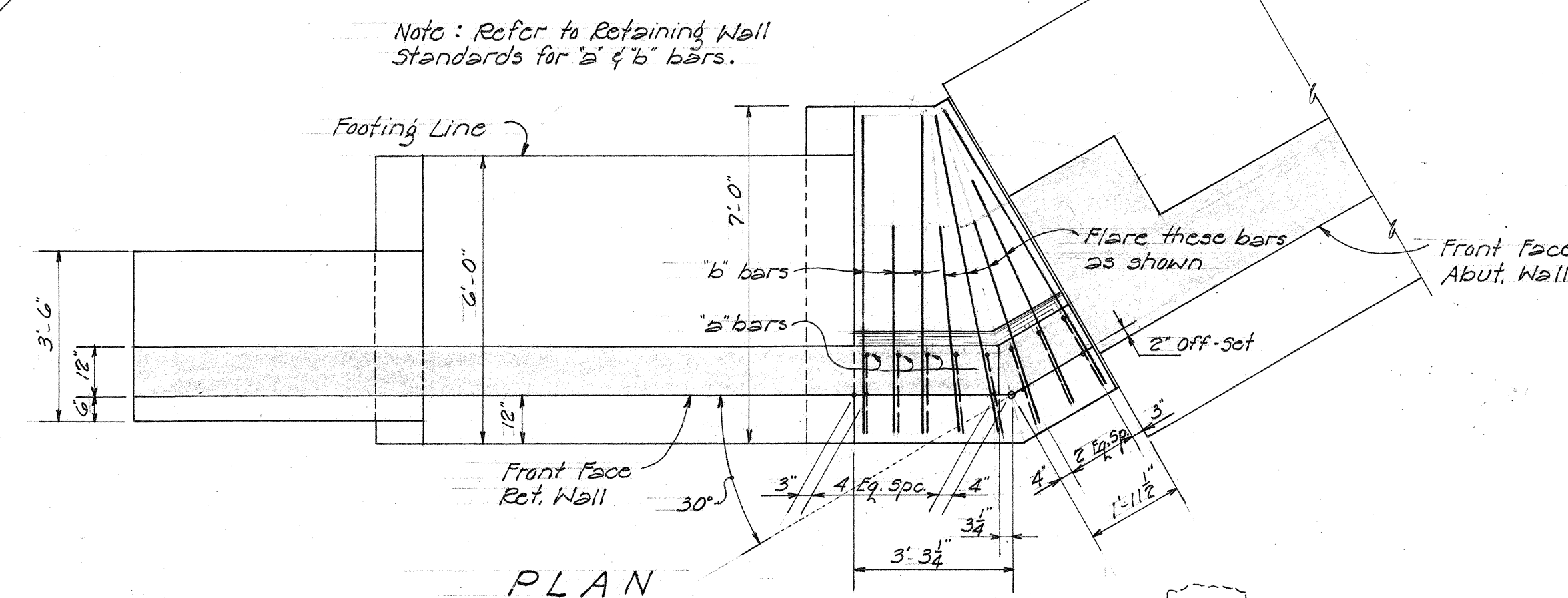
ELEVATION
DETAIL - ABUT. NO. 1
Scale - $1/4" = 1'-0"$



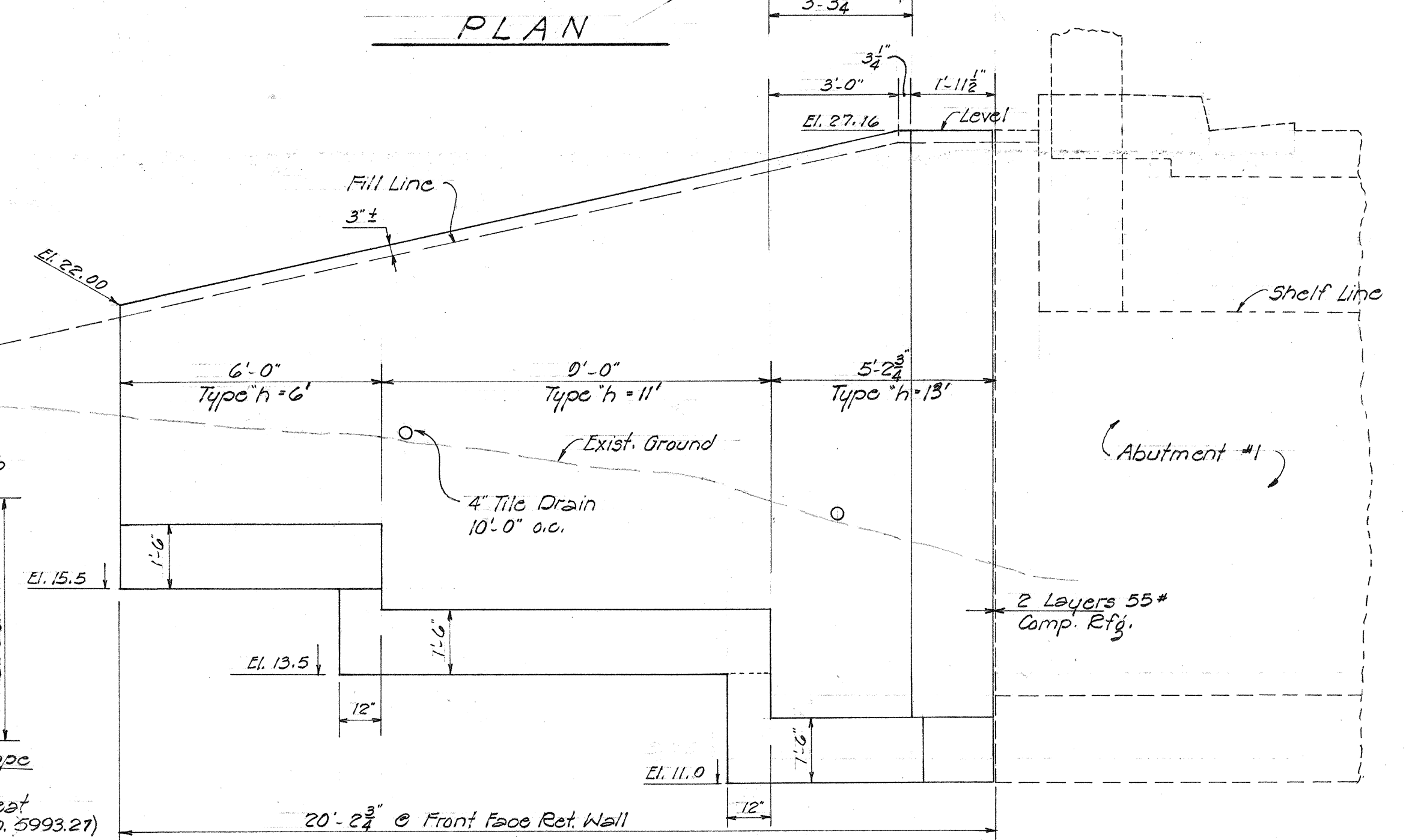
SECTION B-B
Scale - 1/2" = 1'-0"



SECTION A-A
Scale ~ 1/2" = 1'-0"

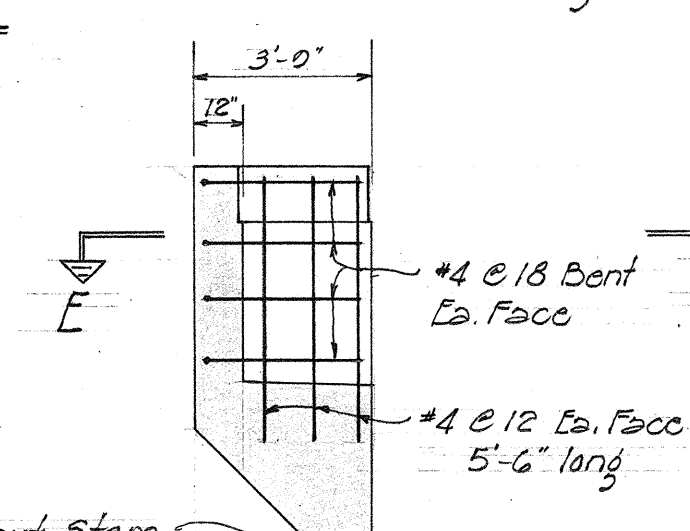


PLAN

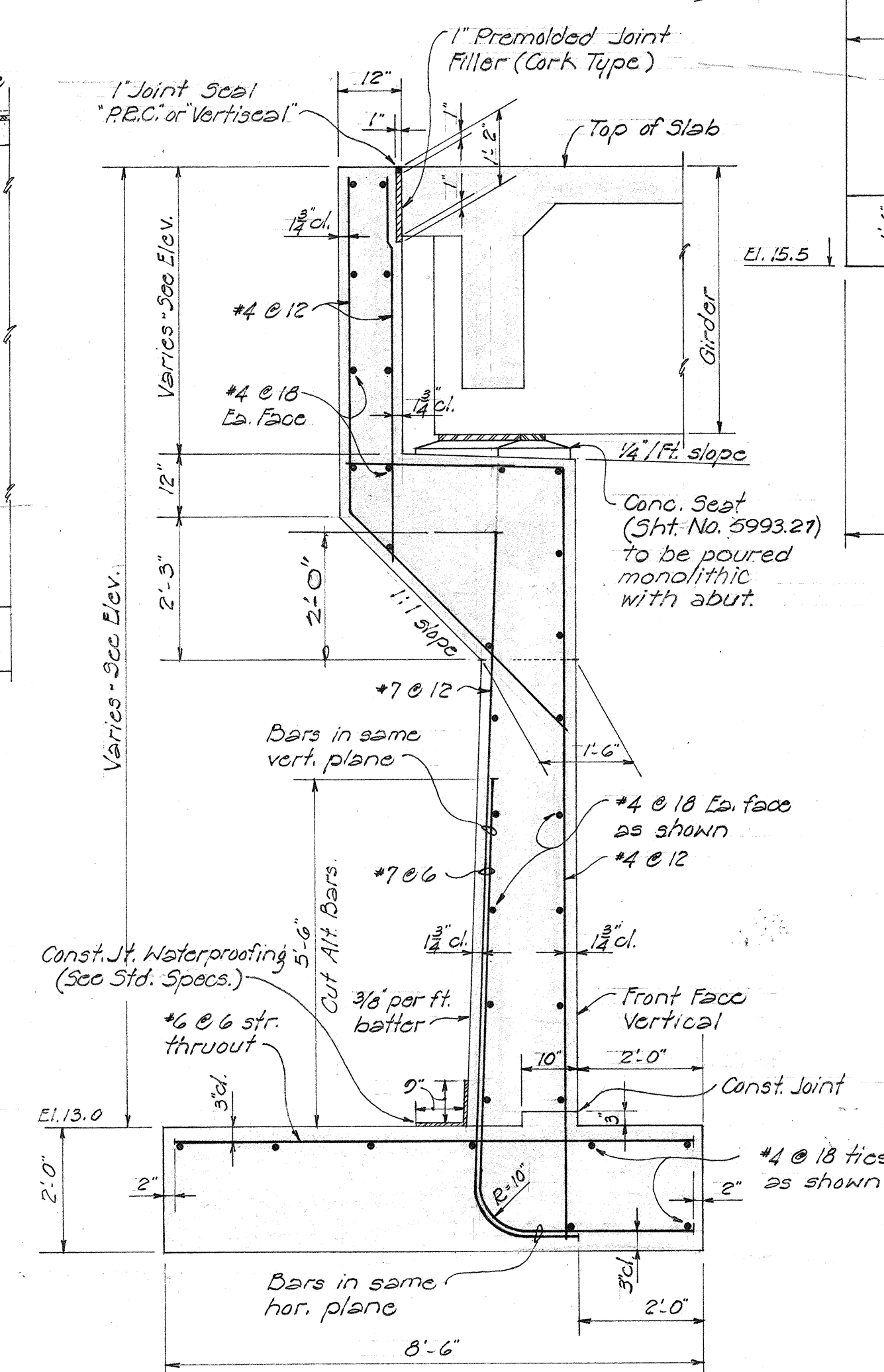


ELEVATION
WINGWALL NO. 1
Scale - $\frac{3}{8}" = 1'-0"$

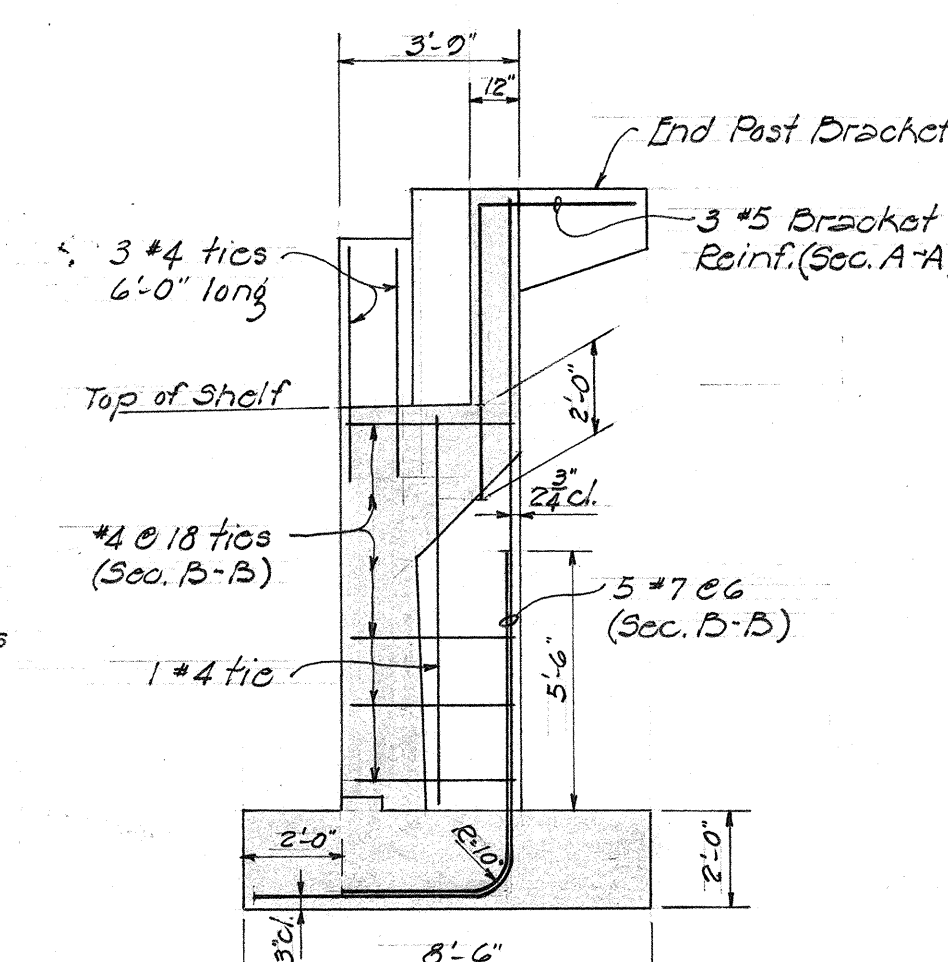
NOTE:
For Ret. Wall & Footing reinf. and details not shown
see Standard Retaining Wall Details.



SECTION D-D
Scale $\sim 1/4" = 1'-0"$



TYP. SECTION ~ ABUT. NO 1
Scale ~ 1/2" = 1'-0"



SECTION C-C
Scale ~ 1/4" = 1'-0"

TERRITORIAL HIGHWAY DEPARTMENT

MAKEHUA STR. BRIDGE

Sta. 44+14.80 to Sta. 44+74.60

KAWAIIHAE RD. PROJ. No. S-0260 (1)

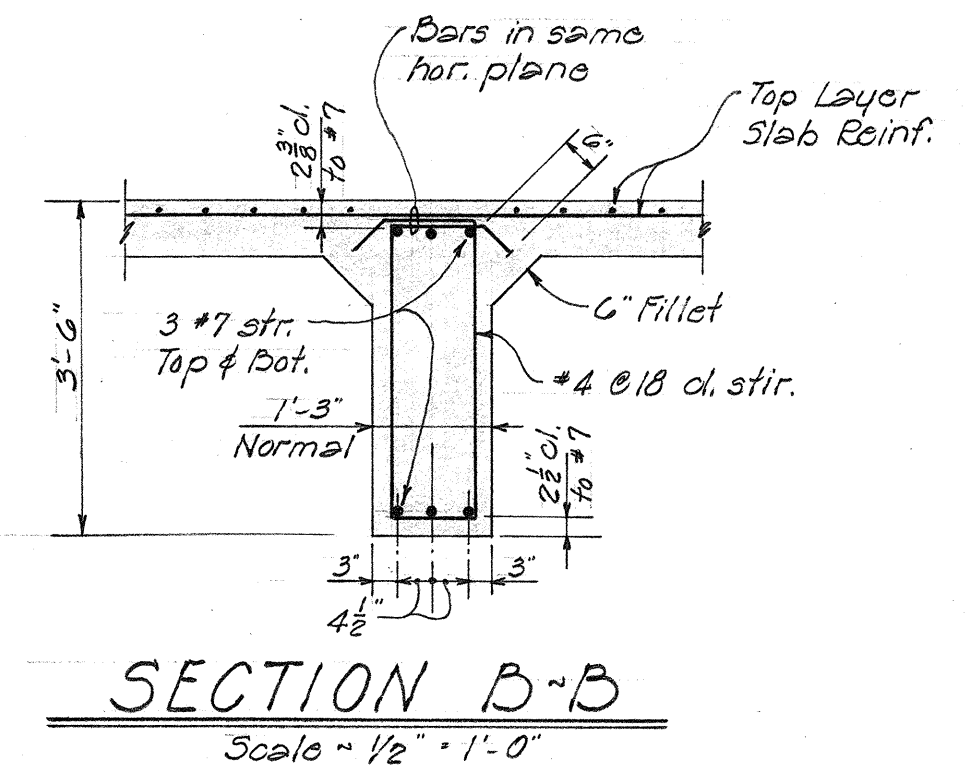
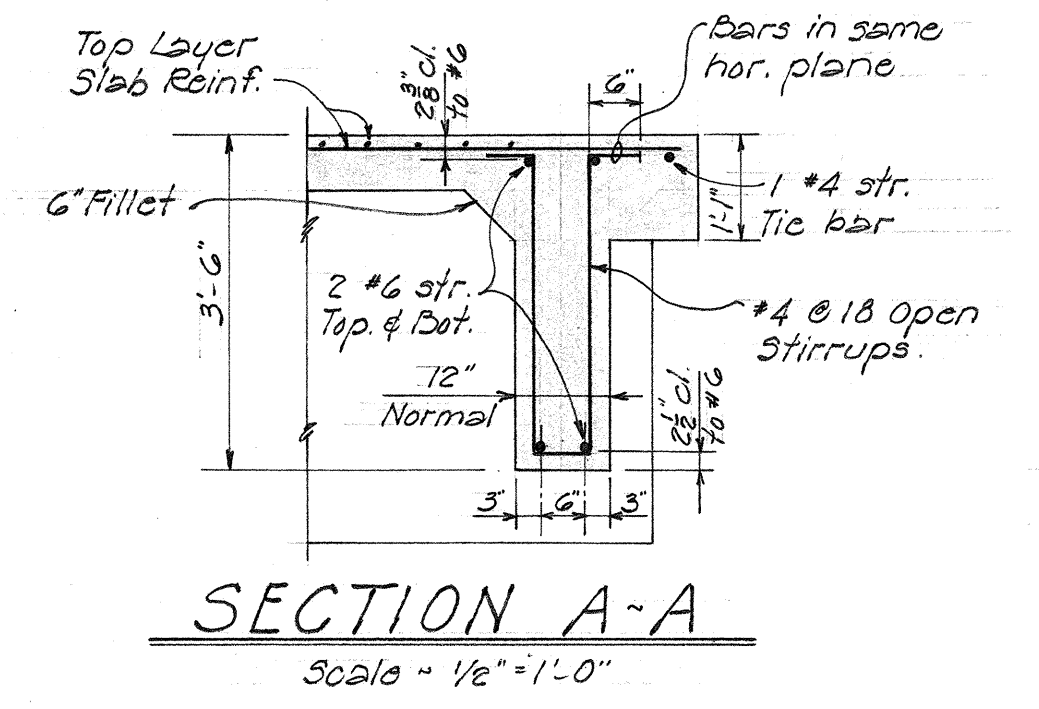
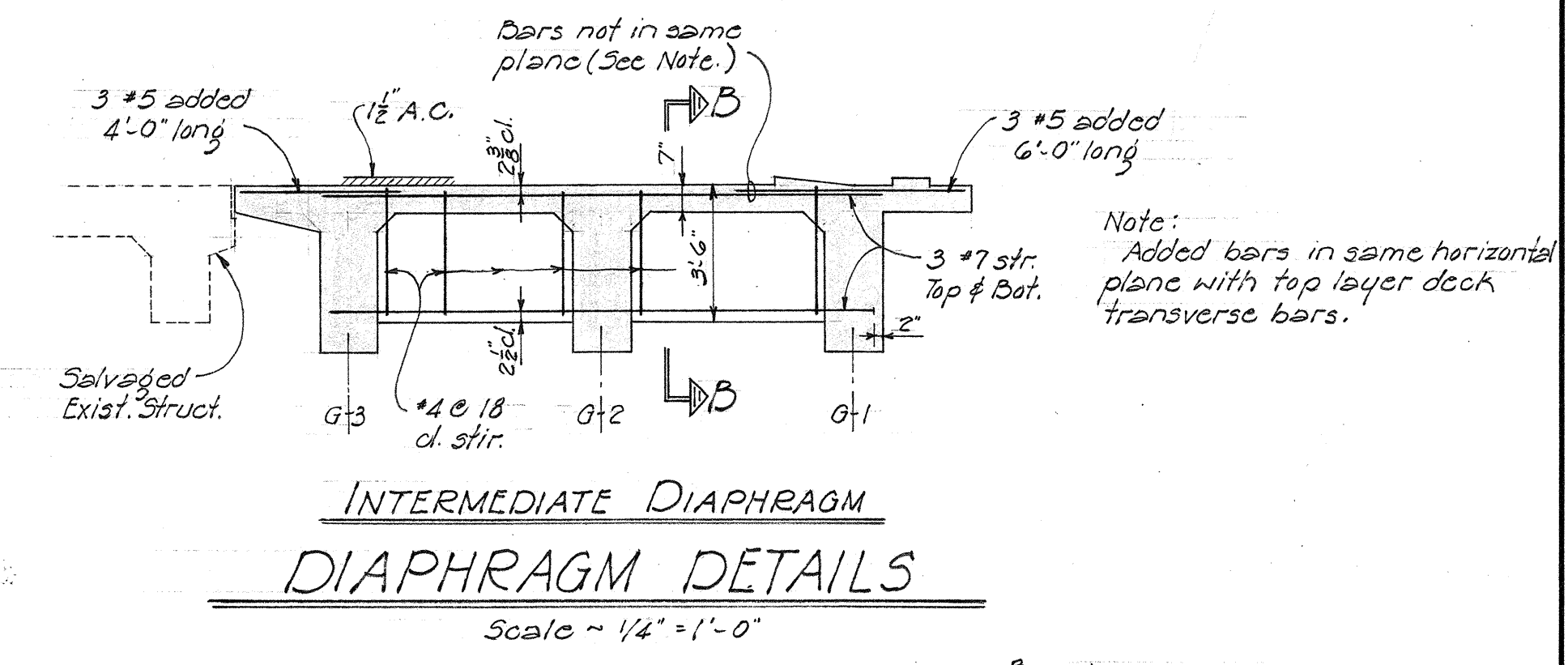
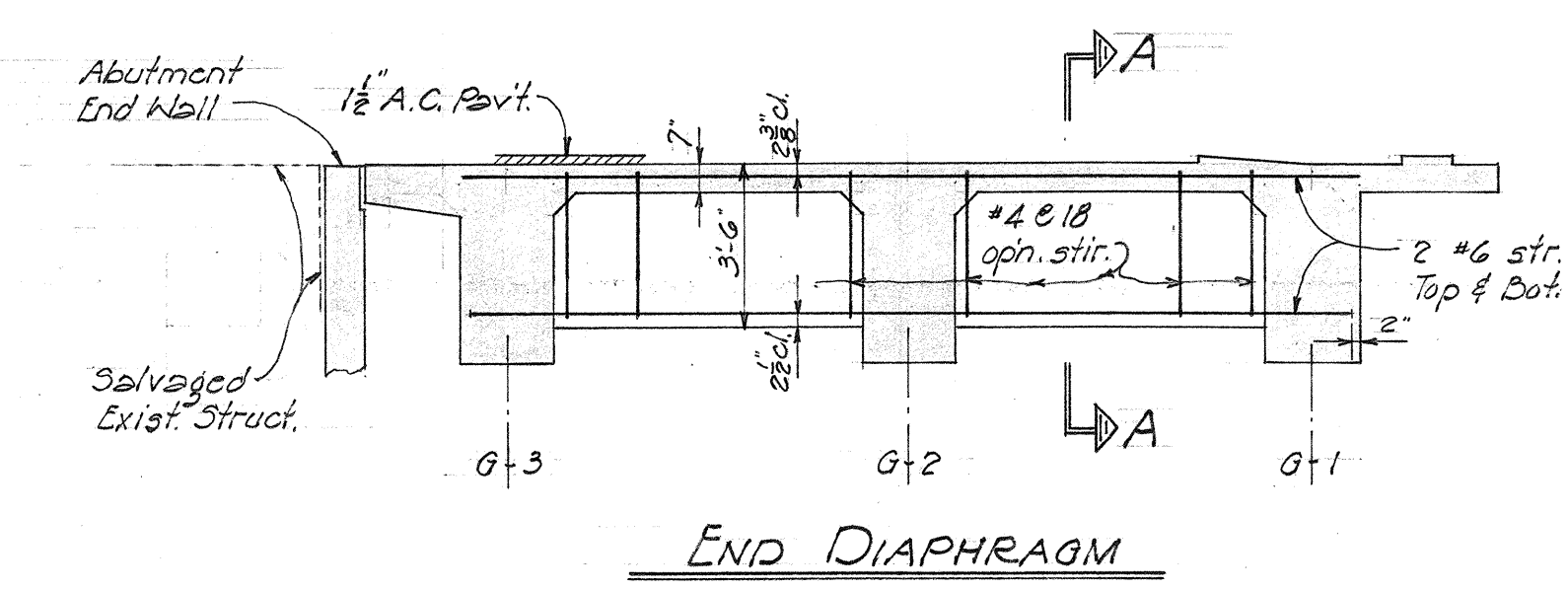
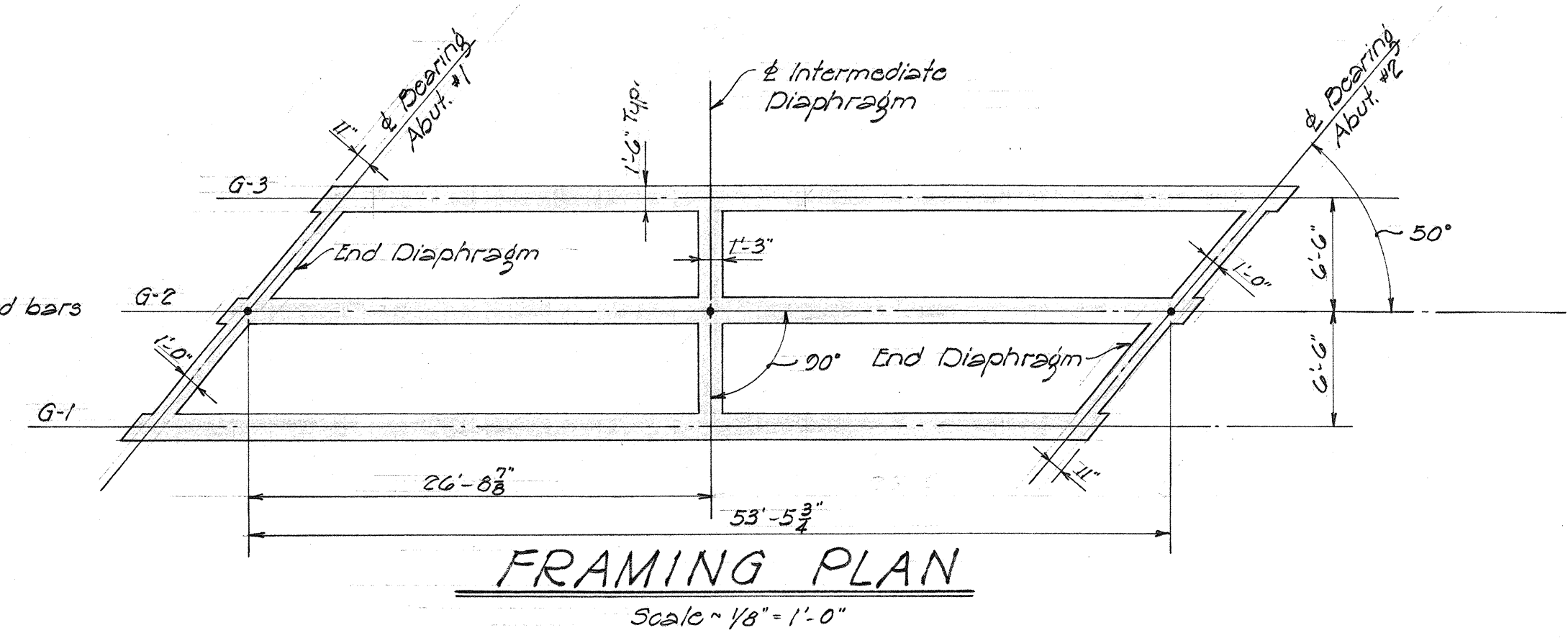
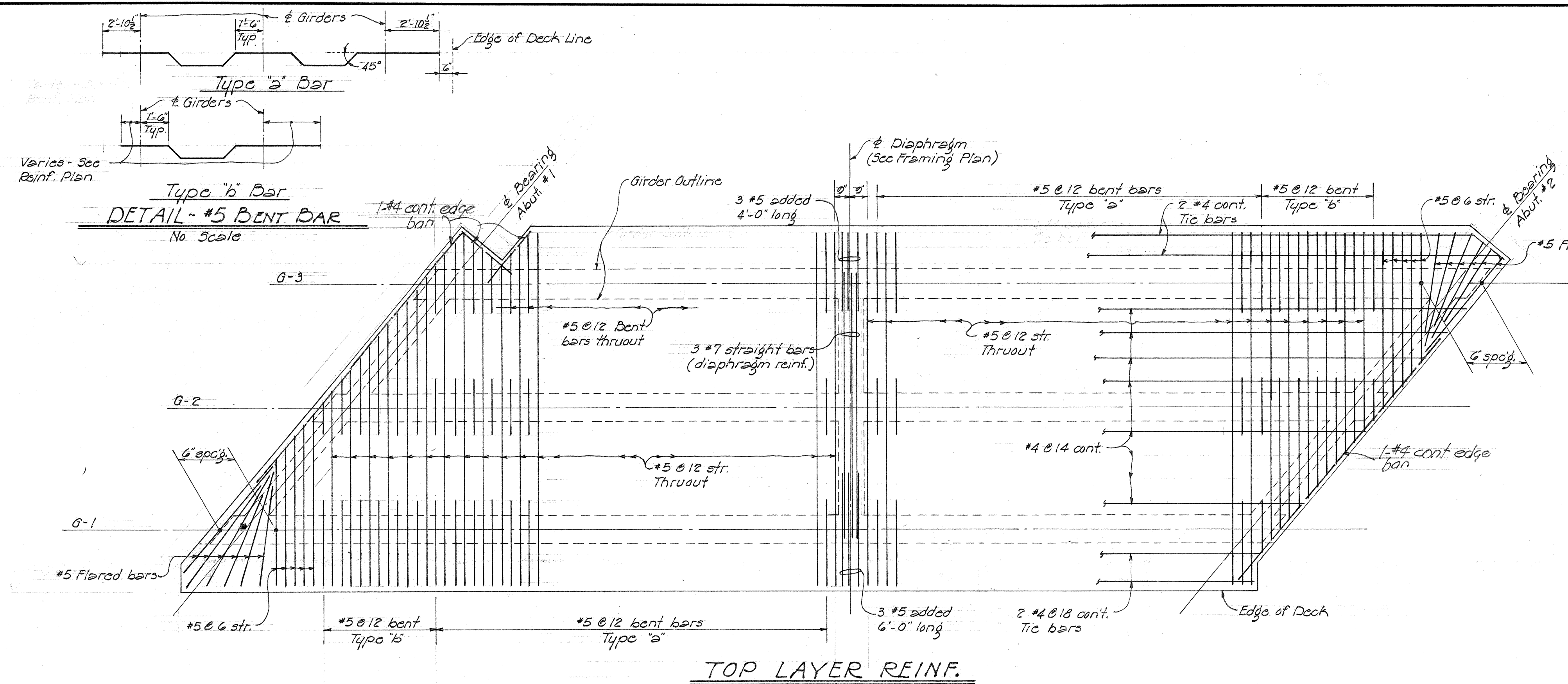
Nov. 1958

SHEET No. 3 OF 6 SHEETS

5993.24

ORIGINAL PLAN	SURVEY PLOTTED BY _____	DATE _____
	DESIGNED BY _____	" 4-55
	DRAWN BY _____	" "
	TRACED BY _____	" "
	QUANTITIES BY _____	" "
	QUANTITIES CHECKED BY _____	" "
	CHECKED BY _____	" "
NOTE BOOK		
No. _____		

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW	S-0260(1)	1953	26	38



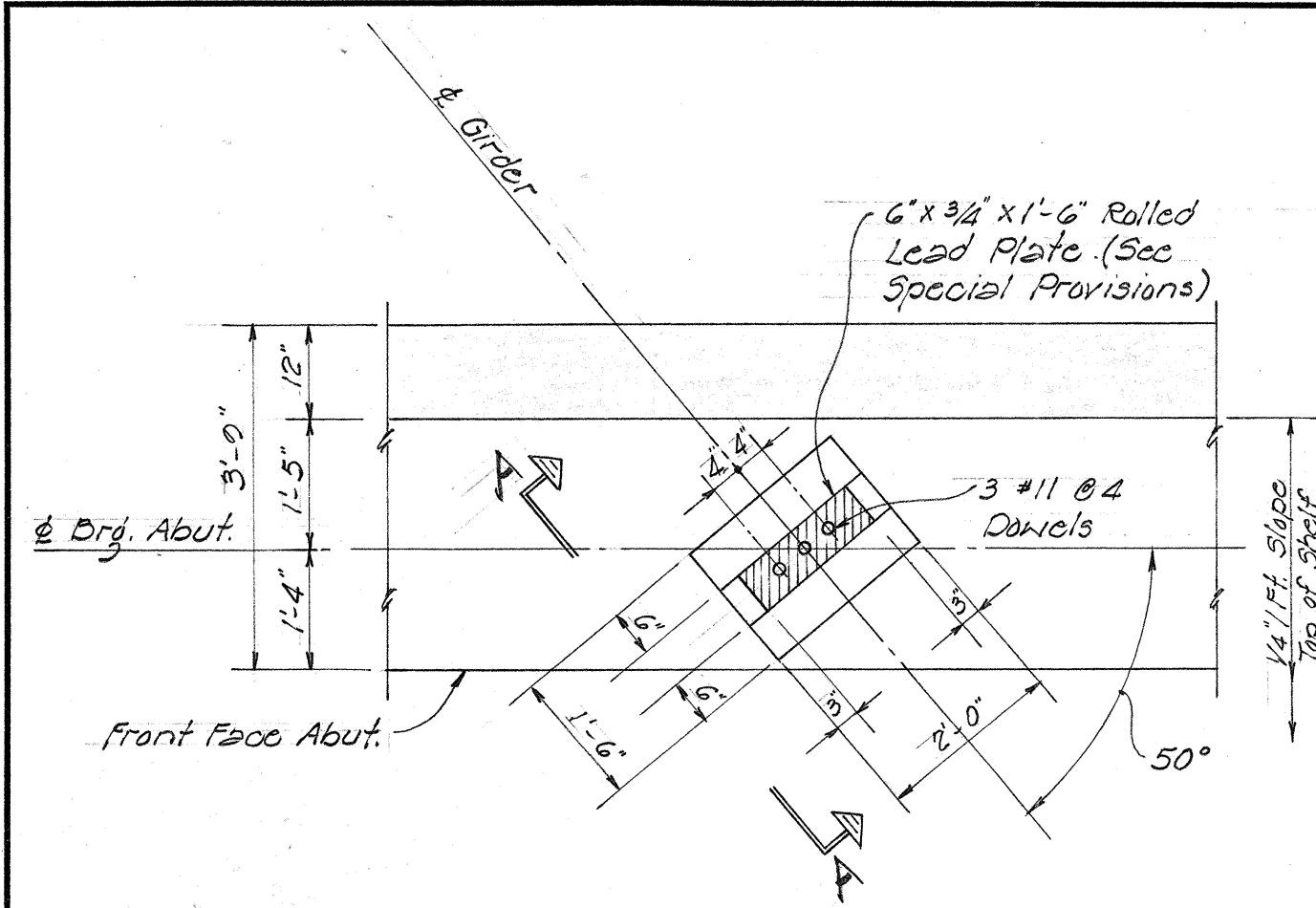
TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII
MAKEHUA STR. BRIDGE
Sta. 44+14.80 to Sta. 44+74.60
KAWAIHAE RD. Proj. No. S-0260(1)
Nov. 1958

SHEET No. 5 OF 6 SHEETS

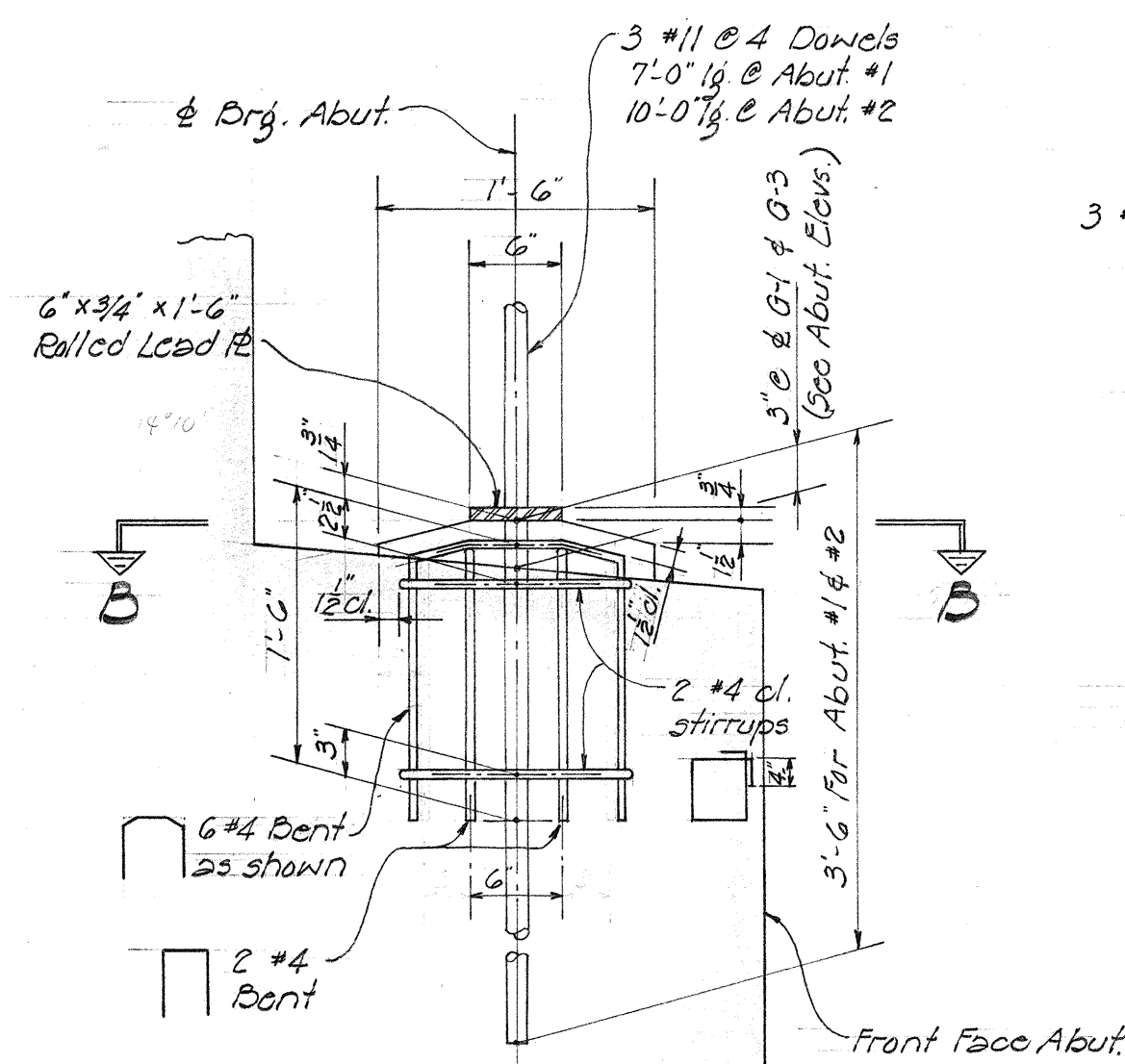
5993.26

SURVEY PLOTTED BY	DATE
DESIGNED BY	
TRACED BY	
QUANTITIES BY	
NOTE BOOK	
No.	

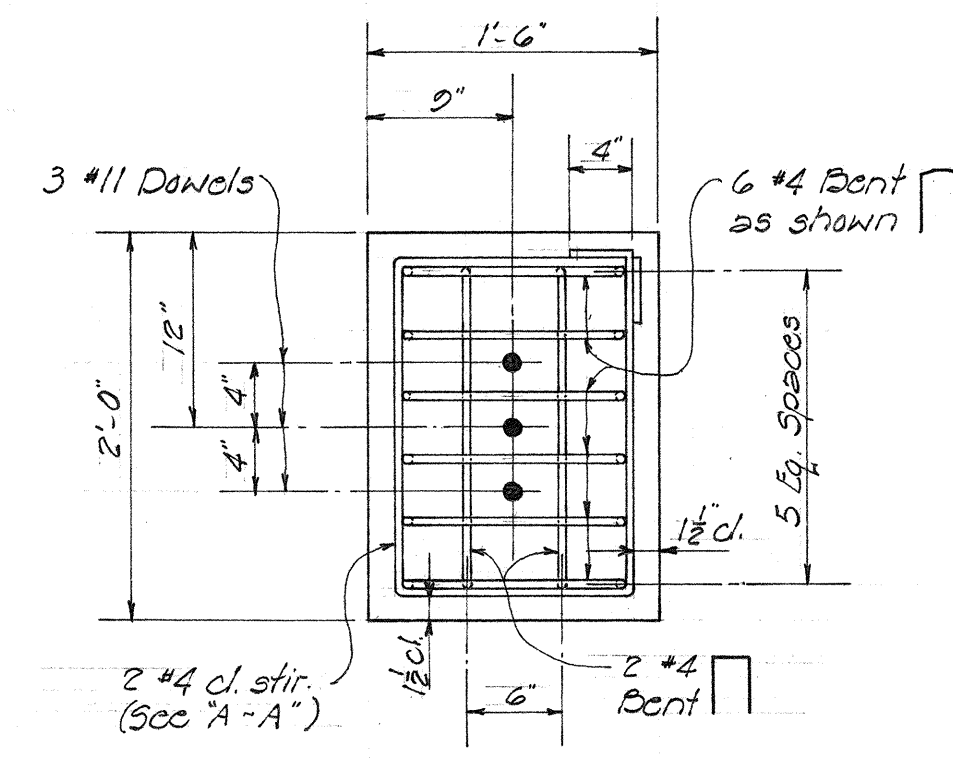
FED. ROAD DIST. No.	STATE	FED. AID PROJ. No.	FISCAL YEAR	SHEET No.	TOTAL SHEETS
HAWAII	HAW	5-0260(1)	1959	27	38



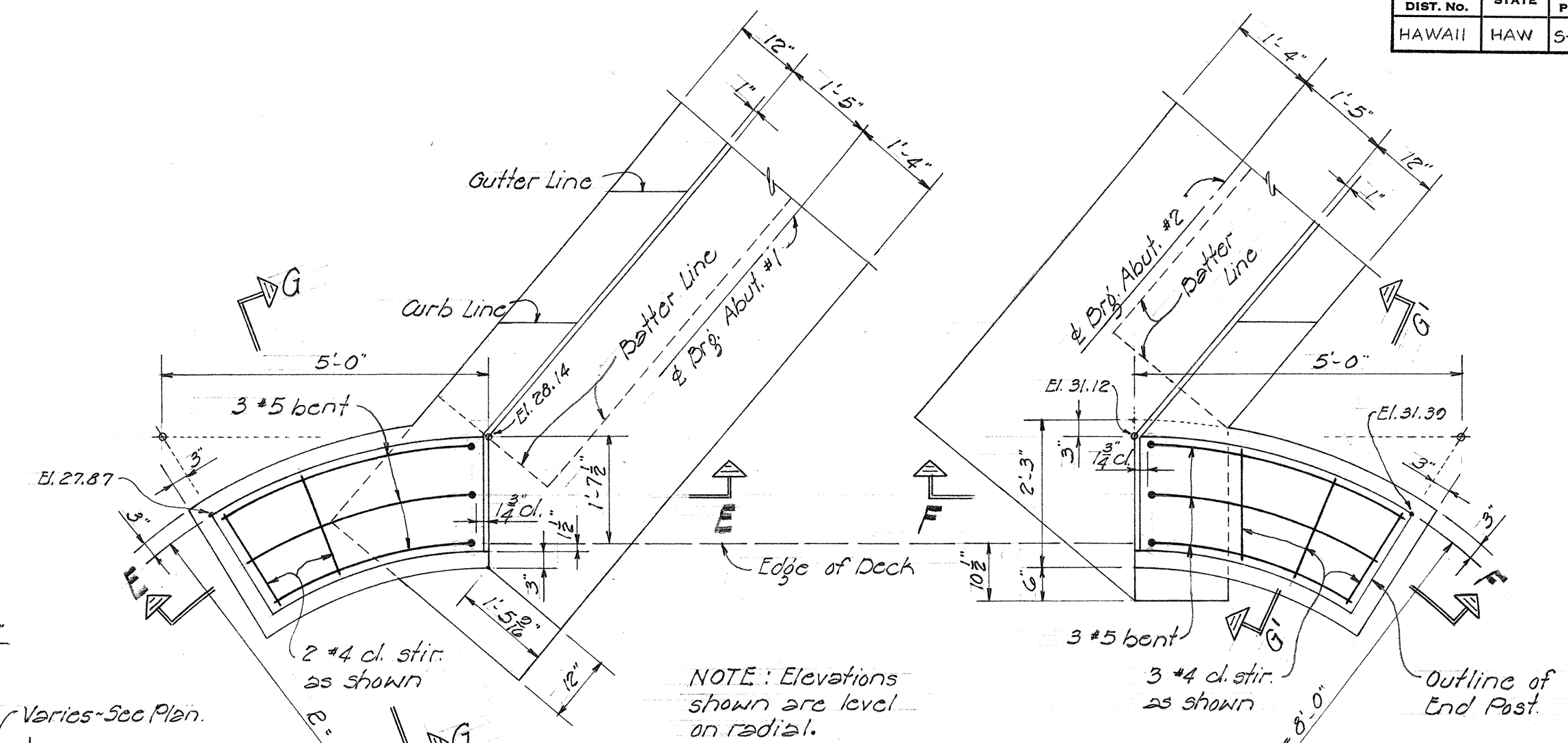
PLAN - TYPICAL CONC. SEAT



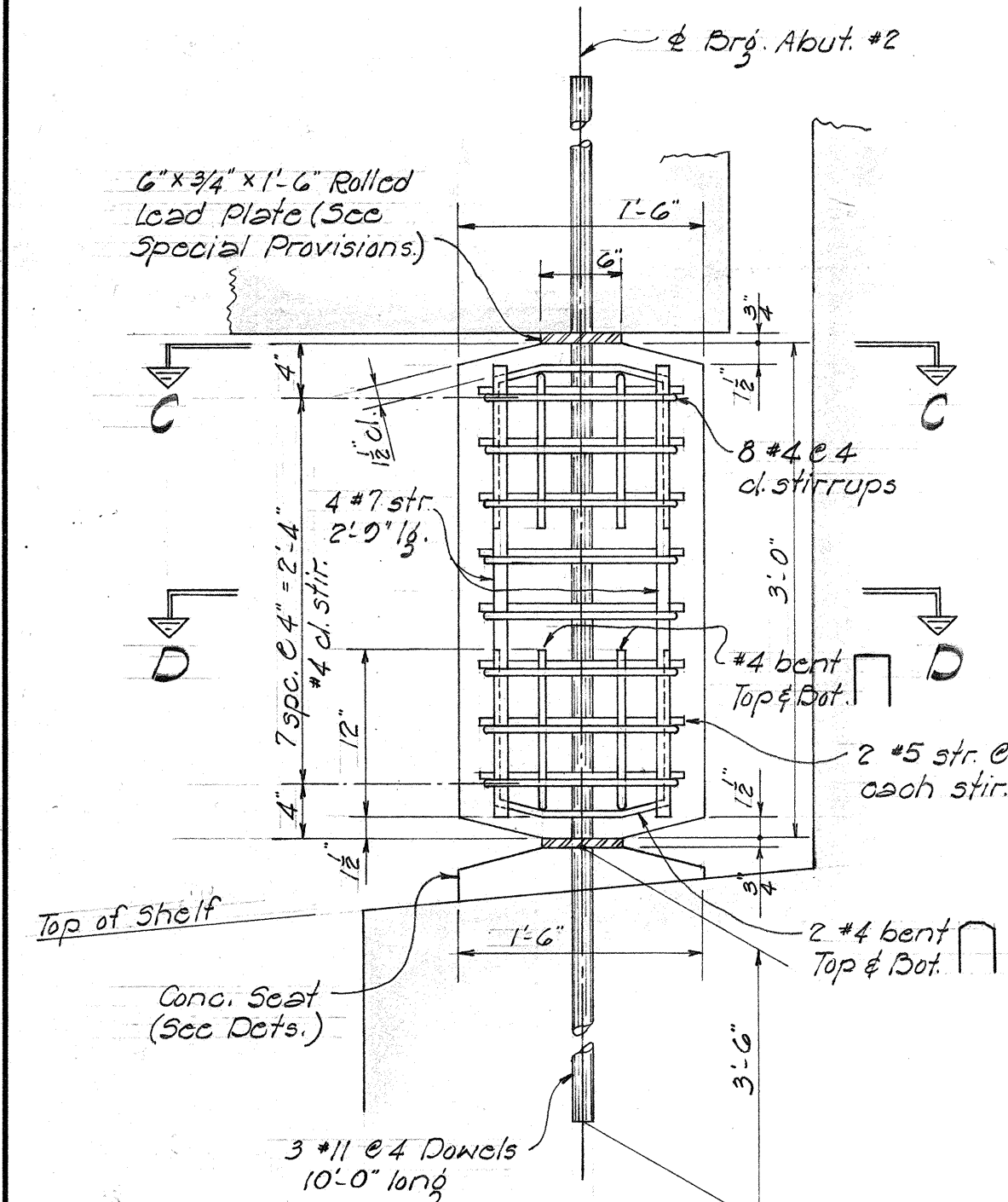
SECTION A-A



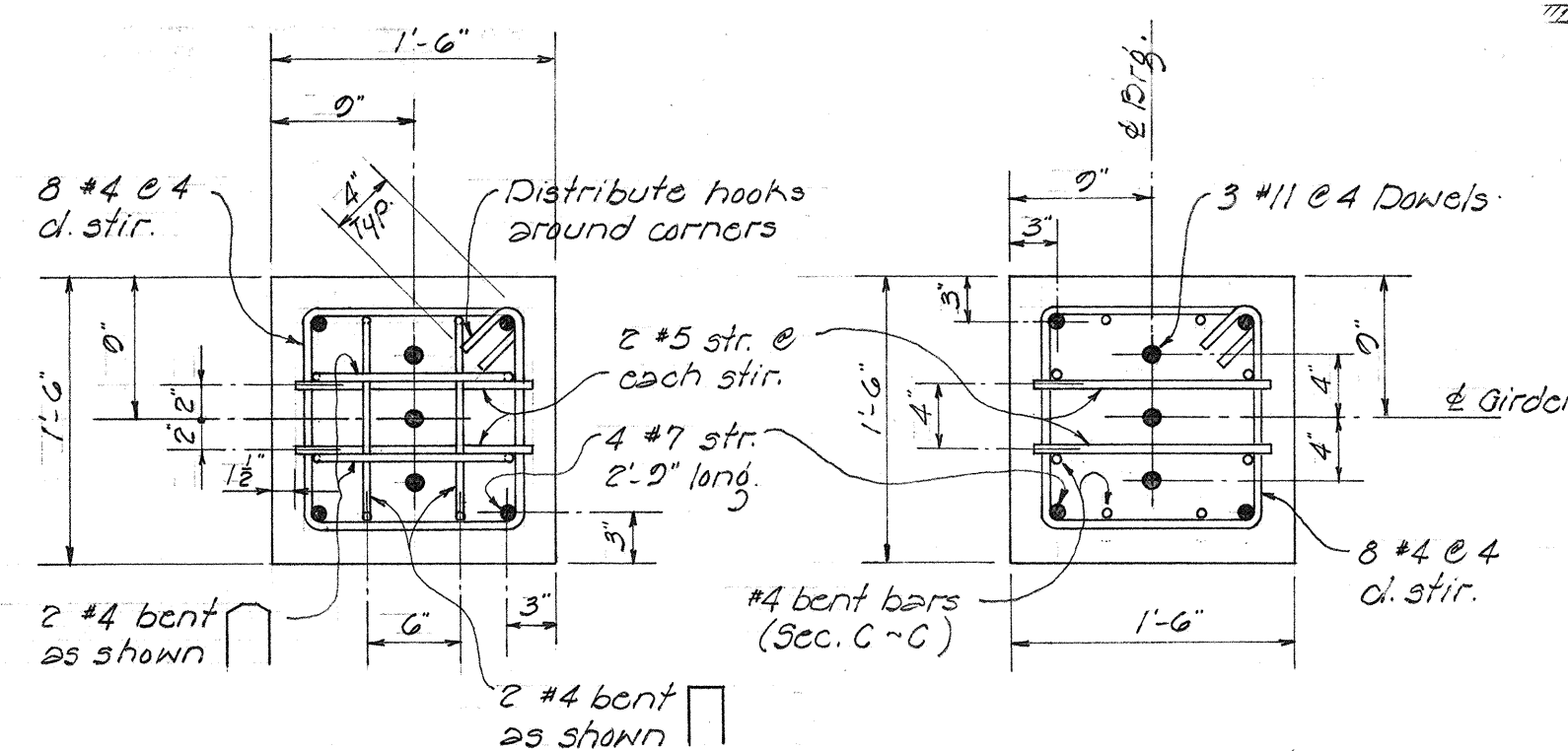
SECTION B-B



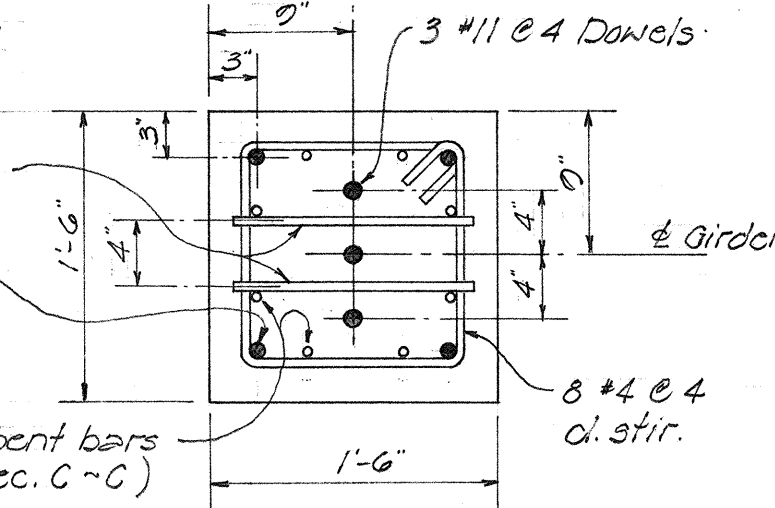
PLAN - BRACKET DET.



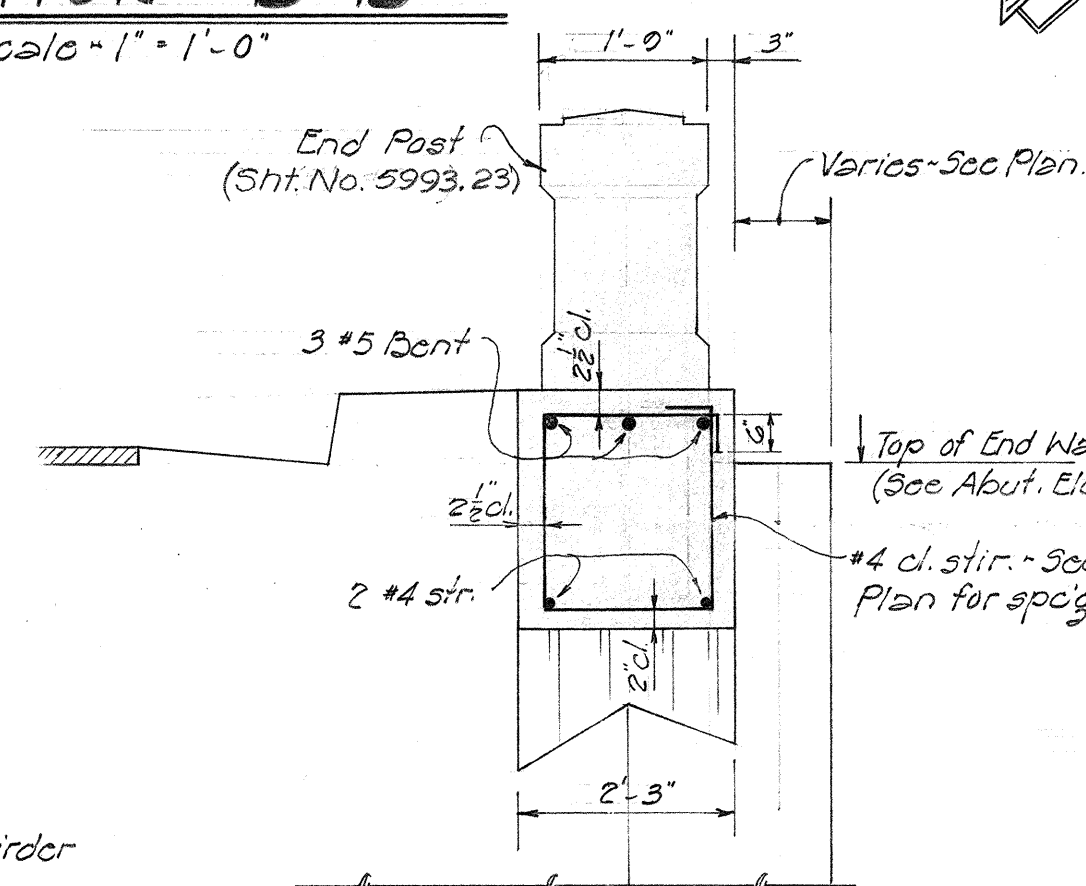
TYPICAL ROCKER DET.



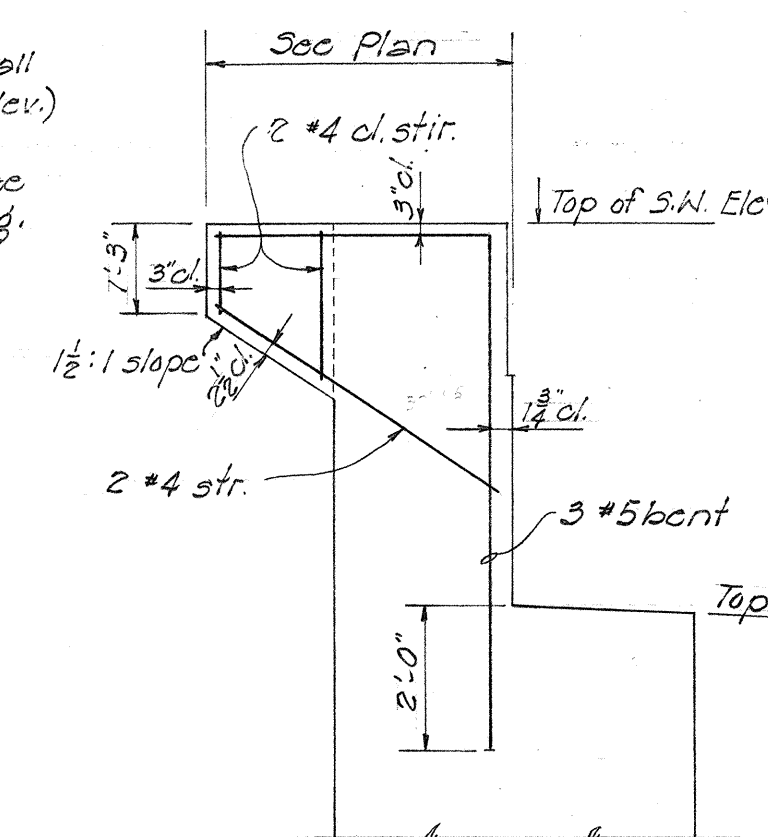
SECTION C-C



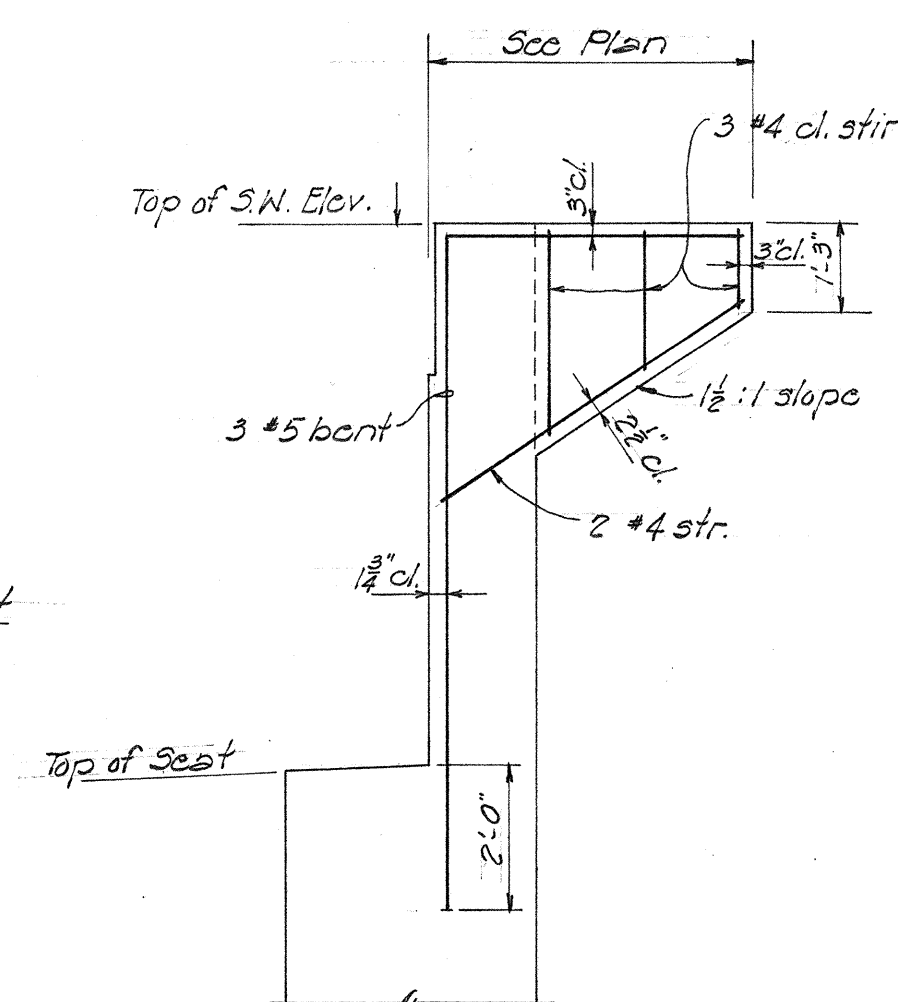
SECTION D-D



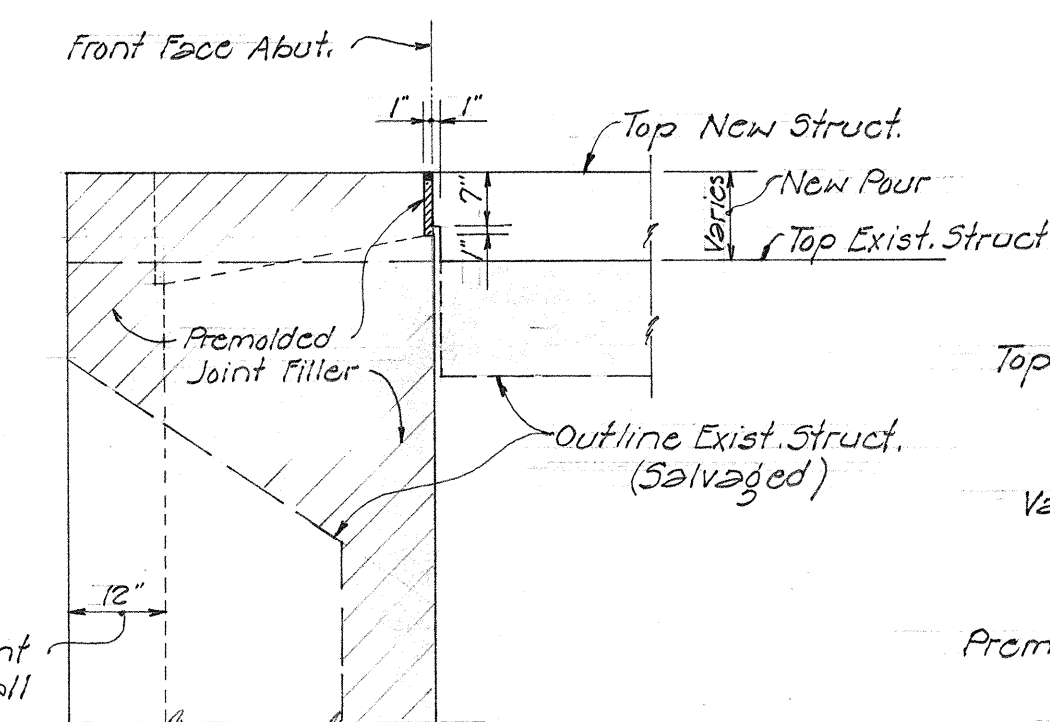
SECTION G-G



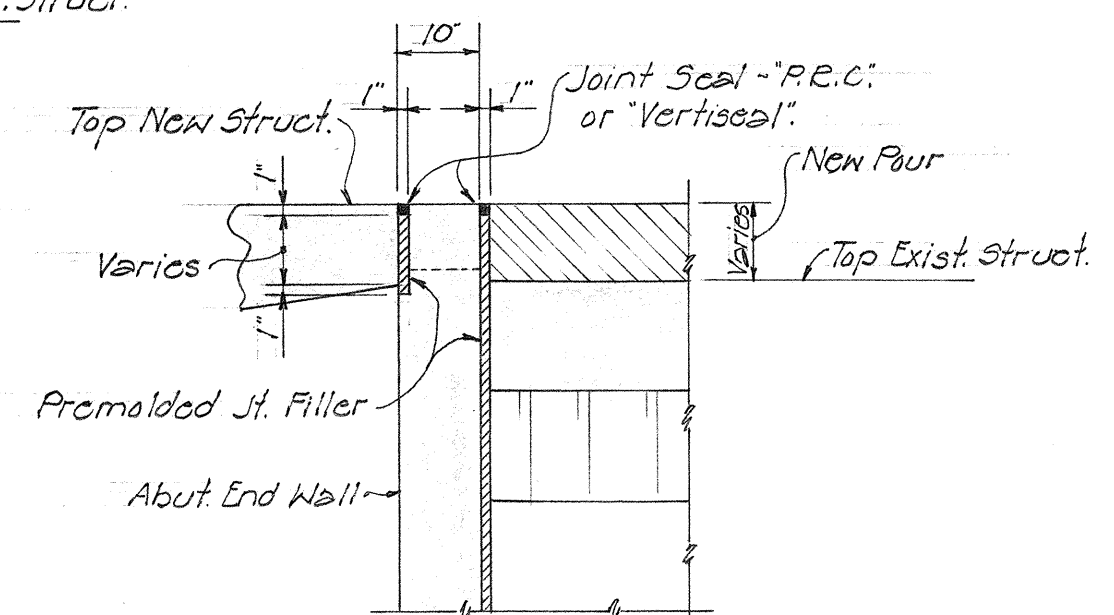
SECTION E-E



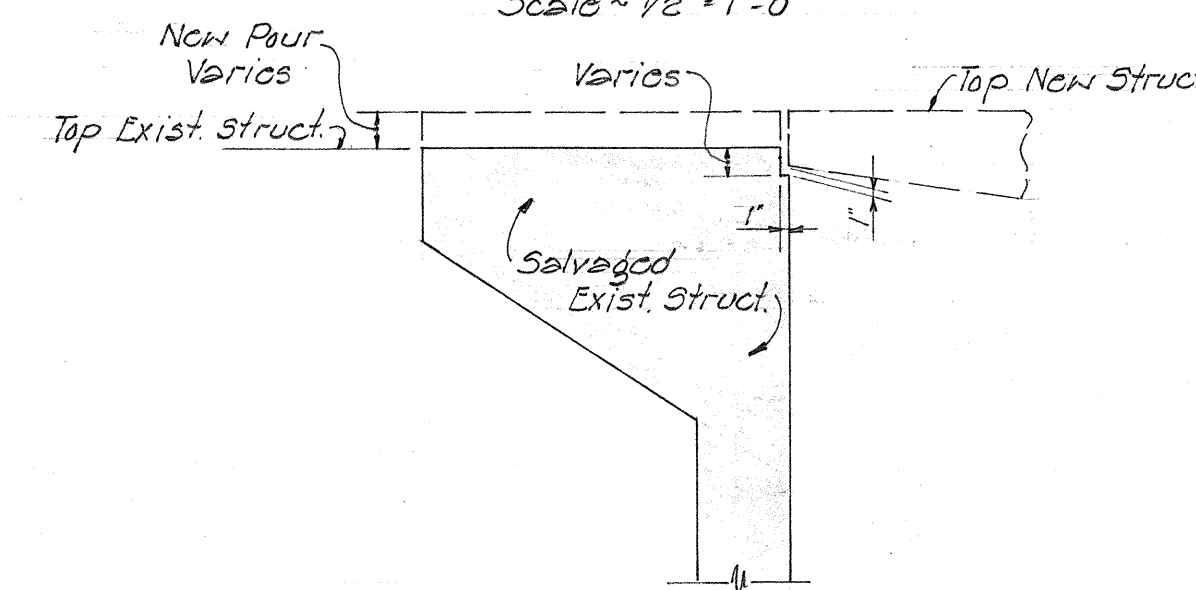
SECTION F-F



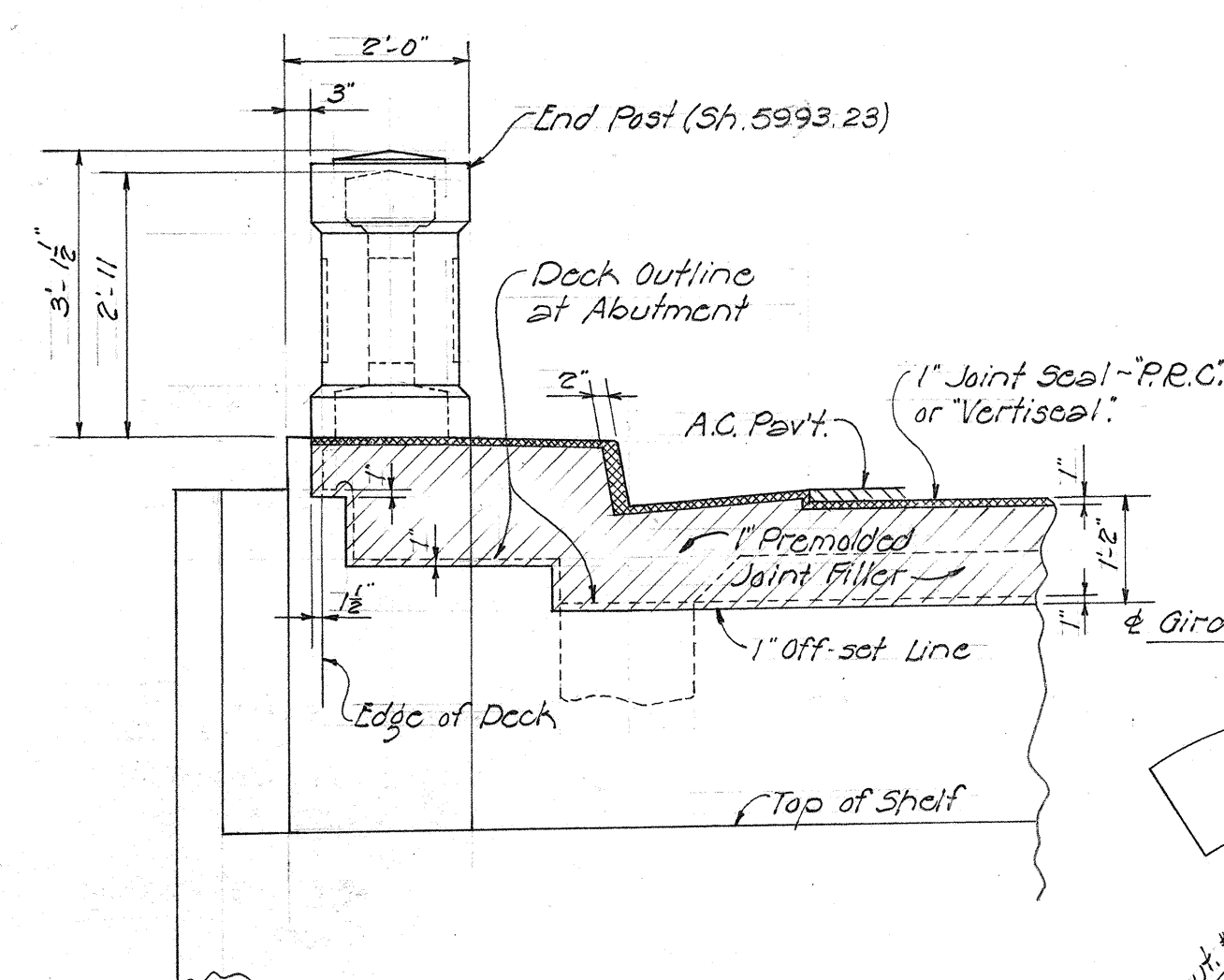
SECTION I-I



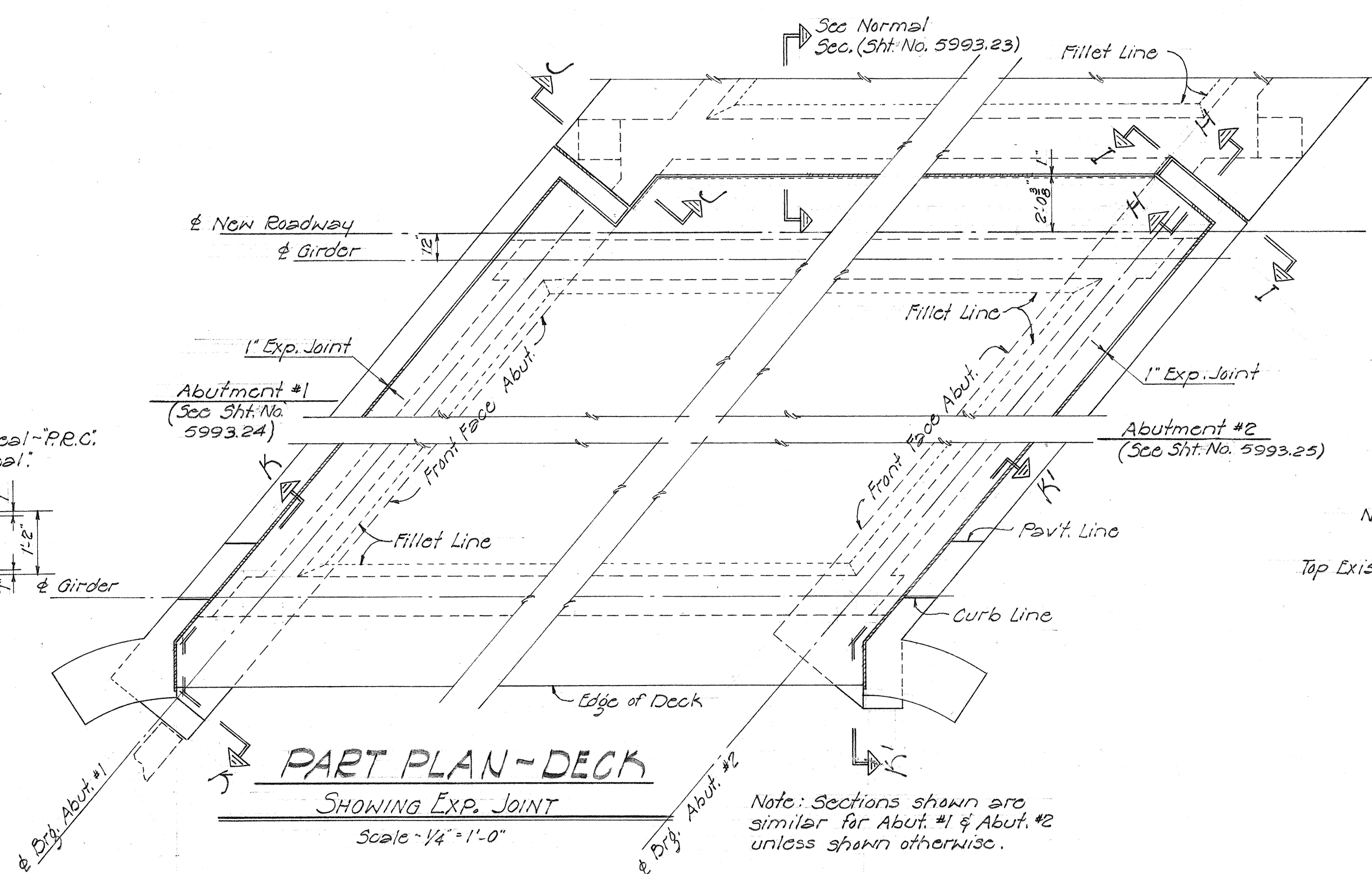
SECTION H-H



SECTION J-2

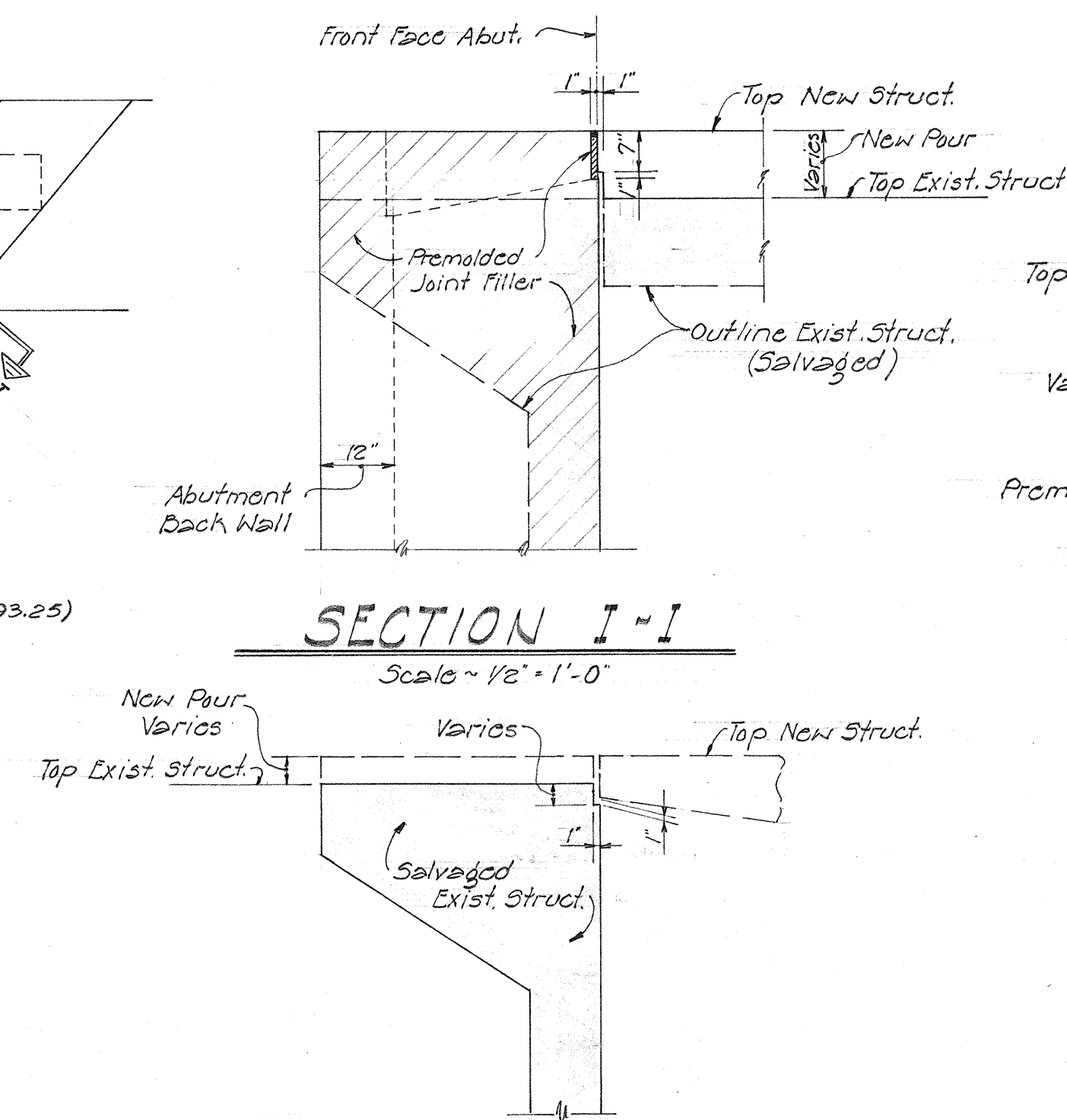


SECTION K-K



PART PLAN - DECK

Note: Sections shown are similar for Abut. #1 & Abut. #2 unless shown otherwise.



SECTION J-2

TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII

MAKEHUA STR. BRIDGE

Sta. 44 + 14.80 to Sta. 44 + 74.60

AWAII HAE RD. Proj. No. S-0260 (1)

Nov. 1958